SAMSUNG

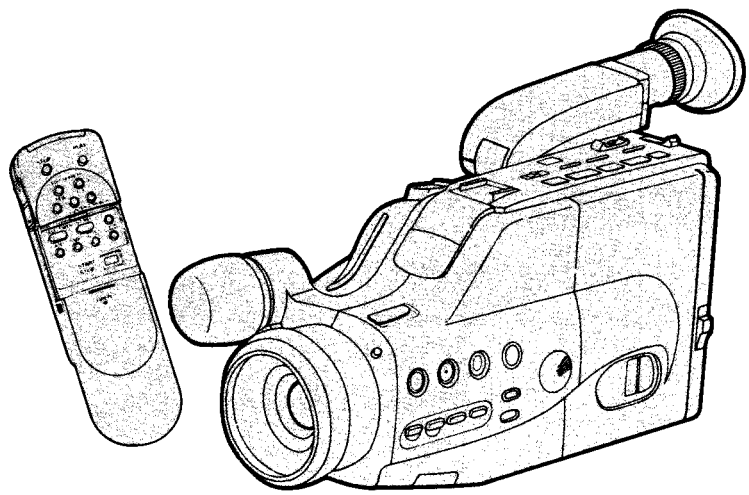
8 Auto Focus CCD Charge Coupled Device

SERVICE MANUAL

MODEL : VP-E807

SCM-P2-003-1E
68139 - 422 - 105

8 mm CAMCORDER



SPECIFICATIONS

SYSTEM

Video recording system :	Rotary two heads, Helical scanning FM system
Audio recording system :	Rotary head, FM system
Video signal :	PAL color, CCIR standards
Usable cassette :	8mm video format cassette
Tape speed :	SP ; Approx. 20.051 mm/sec. LP ; Approx. 10.058 mm/sec.
Recording/Playback time :	SP mode ; 1 hour 30 min (P5-90) LP mode ; 3 hours (P5 - 90)
Fast forward/Rewind time :	Approx. 6.5 min. (P5 - 90)
Image device :	CCD (Charge Coupled Device)
Viewfinder :	Electronic viewfinder (black and white)
Lens :	Combined 8X power zoom lens f= 6.0 ~ 48mm, F=1.8 with auto wide macro, Filter diameter ; 46 mm
Auto focus system :	INNER
Color temperature :	AUTO INDOOR 3,100° K OUTDOOR 5,100° K
Minimum illumination :	3 Lux
Recommended illumination :	More than 300 lux (28 footcandles)
Aperture correction :	Automatic Back light adjustment

INPUT AND OUTPUT CONNECTOR

Video output :	Phono jack, 1 Vp-p, 75 ohms unbalanced, sync negative
Audio output :	Phono jack, - 7.5, dBs, at output impedance less than 2.2 kilohms
RFU DC OUT :	Special minijack, 5 V DC
Earphone jack :	Minijack, 8-ohm impedance
MIC jack :	Minijack -66dBs low impedance

GENERAL

Power requirements :	AC power adaptor (7.5V) Alkaline batteries (9.0V) Battery pack (6.0V)
Power consumption :	7.5Watt (camera recording)
Operating temperature :	0° C to 40° C (32° F to 104° F)
Storage temperature :	-20° C to 60° C (-4° F to 140° F)
Dimensions (W/H/D):	Approx. 109 x 127 x 288mm (4.3 x 5 x 11.3 inch)
Weight :	Approx. 1.03Kg
Microphone :	Electric condenser microphone, omni-directional monaural type

Printed in Korea

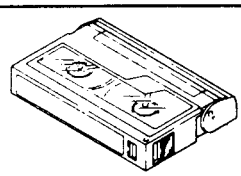
NOV. 1992

http://www.ManualsCenter.com

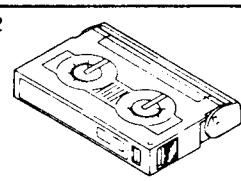
LIST OF SERVICING JIGS

Ref. NO.	JIG ITEM	CODE NO.	SPECIFICATION	DESCRIPTION
J-1	Alignment Tape	68140-200-108 68140-200-109 68140-200-110 68140-200-111 68140-200-112	PAL ; SE1-2L PAL ; SE2-2 PAL ; SE2-2L PAL ; SE4-2L PAL ; SEM-2L	; LP LION PATTERN : 400Hz ; SP COLOR BAR : 400Hz ; LP COLOR BAR : 400Hz ; TAPE PATH ; H'd Q ADJUSTMENT
J-2	Back Tension cassette Tape	68140-200-123	-	; Use for back tension adjustment of supply reel.
J-3	Guide Roller Adjusting Driver	68140-200-113	-	; Use for height adjustment of Guide Roller for envelope linearity adjustment.
J-4	Impedance Roller Height Adjustment Jig	68140-200-114	-	; Use for height adjustment of Impedance Roller.
J-5	Camera Section Fixing Jig	68140-400-001	-	; Use for fixing CAMERA when adjustment or checking CAMERA Section.
J-6	Video Signal Input Cable	68140-200-122	-	; Use for color bar signal input cable of connector J202 of VIDEO Board (VTR Section).
J-7	Extension Cable (Flat cable)	68140-400-006	13 Pin	; Use for T/S connecting cable between MAIN Board (CN504) and DECK.
J-8	Extension Cable (Flat cable)	68140-400-007	11 Pin	; Use for T/S connecting cable between MAIN Board (CN505) and DECK.
J-9	Extension Cable	68140-400-008	14 Pin (2EA) (Only for VP-E807)	; Use for T/S connecting cable between PROCESS Board (CNP02, CNP03) and AUTO Board (CNA01, CNA02) of CAMERA Section.
J-10	Camera CTL Jig Unit	68140-400-002	COMMON	; Use for all adjustment of CAMERA Section.
J-11	Translation Cable - 1	68140-400-003	10 Pin (Only for VP-E807)	; Use for connecting cable between CTL jig and auto board(CNA06).
J-12	Translation Cable - 2	68140-400-004	2 Pin (Only for VP-E807)	; Use for connecting cable between CTL jig and auto board(CNA08).
J-13	Translation Cable - 3	68140-400-005	8 Pin (Only for VP-E807)	; Use for connecting cable between CTL jig and auto board(CNA09).

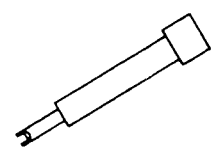
J-1



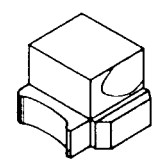
J-2



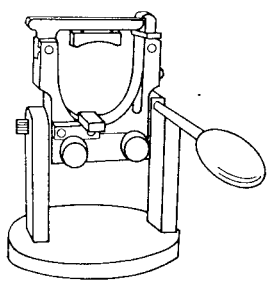
J-3



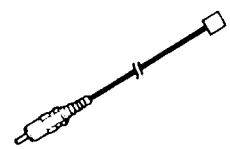
J-4



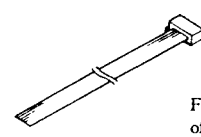
J-5



J-6

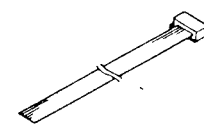


J-7



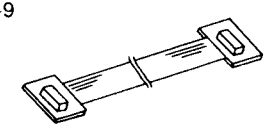
Flat cable of 13 pin

J-8

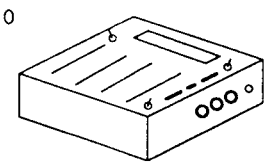


Flat cable of 11 pin

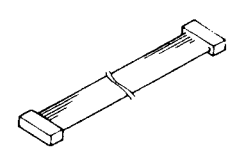
J-9



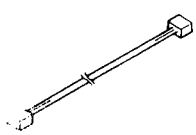
J-10



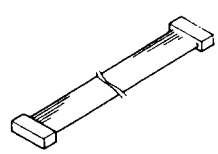
J-11



J-12



J-13



★ When ordering J-10,
Be sure to order J-10 together with J-11, J-12, J-13.

CONTENTS

1. GENERAL DESCRIPTION

1-1. Safety Precautions 1-1
1-2. Electrostatically Sensitive (ES) Devices 1-1
1-3. Features 1-2
1-4. Safety Instructions 1-2
1-5. Operating Controls 1-4
1-6. Replacement Procedure for Leadless (Chip) Component 1-8
1-7. How to Replace Leadless (Chip) Component .. 1-10
1-8. Abbreviations 1-12

2. DISASSEMBLY

2-1. Instrument Disassembly 2-1
2-2. Preparations for Mechanical Block Check, ADJ. and Replacement 2-5
2-3. Mechanical Block Check, Adjustment and Replacement 2-8

3. MECHANICAL ADJUSTMENT

3-1. Playback Tension Adjustment 3-1
3-2. Reel Torque Check 3-1
3-3. Tape Path Adjustment 3-1

4. CAMERA ADJUSTMENT

4-1. Preparations 4-1
4-2. Camera System Adjustment 4-2
4-3. E.V.F System Adjustment 4-6

5. VTR ADJUSTMENT

5-1. Preparations 5-1
5-2. DC/DC Converter Section 5-3
5-3. System Control/Servo Section 5-4
5-4. Audio Section 5-5
5-5. Pre-Amp Section 5-5
5-6. Video Section 5-6
5-7. Program Switch Timing Chart 5-9

6. ELECTRICAL PARTS LIST

6-1. General Information 6-1
6-2. Chip parts Layout and Specification 6-2
6-3. VTR Section Replacement Parts List 6-4
6-4. CAMERA Section Replacement Parts List 6-12
6-5. Accessories 8-18

7. EXPLODED VIEW/PARTS LIST

7-1. Cabinet Assembly 7-2
7-2. Mechanical Parts (1) 7-4
7-3. Mechanical Parts (2) 7-5
7-4. Mechanical Parts (3) 7-6
7-5. E.V.F 7-7
7-6. AC Power Adaptor 7-8

8. BLOCK DIAGRAMS

8-1. Total Wiring Diagram 8-2
8-2. System Control 8-3
8-3. Servo Drum Control 8-4
8-4. Servo Capstan Control 8-5
8-5. Video 8-6
8-6. Pre-Amp 8-7
8-7. Audio 8-7
8-8. Drive 8-8
8-9. Auto 8-9
8-10. Process 8-10

9. CIRCUIT BOARDS

9-1. AC Power Adaptor 9-2
9-2. DC/DC Converter 9-2
9-3. MIC 9-4
9-4. Start/Stop 9-4
9-5. VTR Function 9-6
9-6. Main 9-8
9-7. Video 9-10
9-8. CAMERA Function 9-12
9-9. E.V.F 9-12
9-10. Drive 9-14
9-11. Auto 9-16
9-12. Process 9-18

10. SCHEMATIC DIAGRAMS

10-1. Regulator 10-2
10-2. Power 10-3
10-3. System Control/Servo 10-4
10-4. Video 10-6
10-5. Audio 10-8
10-6. Pre-Amp 10-10
10-7. MIC 10-12
10-8. VTR Function 10-12
10-9. Start/Stop 10-13
10-10. DECK FPC 10-13
10-11. Remote Control 10-14
10-12. Module 10-14
10-13. E.V.F 10-15
10-14. Drive 10-16
10-15. CAMERA Function 10-18
10-16. Auto 10-20
10-17. Process 10-22
* FOCUS CHART

1.GENERAL DESCRIPTION

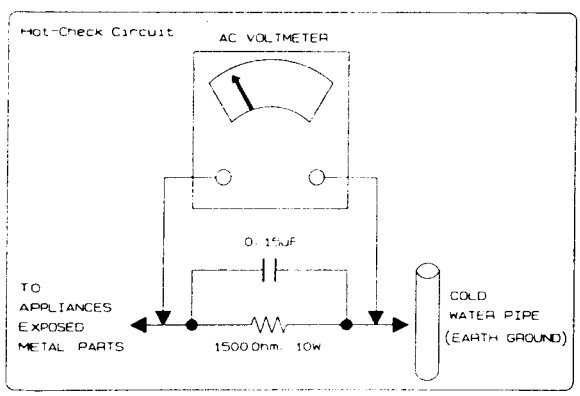
1-1. SAFETY PRECAUTIONS

GENERAL GUIDE LINE

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged.
2. After servicing , see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. Use a separated isolation transformer for this unit when servicing.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet, part on the equipment such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1m and 5.2m. When the exposed metal does not have a return path to the chassis, the reading must be oo.



LEAKAGE CURRENT HOT CHECK (See Fig.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect an 1.5K, 10 watt resistor, in parallel with a 0.15uF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in figure.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester may be used to make the hot checks, leakage current must not exceed 0.5 milliamp.
In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

1-2. ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called "Electrostatically Sensitive (ES) Devices". Examples of typical ES devices are integrated circuits, some field effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti static solder removal device. Some solder removal devices not classified as "anti static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise, harmless motion such as the brushing together of your clothes fabric to the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

1-3. FEATURES

* CCD Pick Up Device
* Auto Focus, Power Zoom Lens
* Auto IRIS
* Auto Tracking
* Electronic Viewfinder
* Full record and playback capability with 8mm cassette
* Variable high speed shutter
* Fade In/Out
* Recording Review
* On-Screen Displays (OSD)
* Edit Search
* Superimpose
* SP mode and LP mode recording
* Auto lock

1-4. SAFETY INSTRUCTIONS

1. Read Instructions : All the safety and operating instructions should be read before the CAMCORDER is operated.

2. Retain Instructions : The safety and operating instructions should be retained for future reference.

3. Heed Warnings : All warnings on the CAMCORDER and the operating instructions should be adhered to.

4. Follow Instructions : All operating and maintenance instructions should be followed.

5. Cleaning : Unplug this CAMCORDER from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for dusting cabinet.

6. Attachments : Do not use attachments not recommended by the CAMCORDER product manufacturer, as they may be hazardous or cause damage.

7. Water and Moisture : Do not use this CAMCORDER near water-IE bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or the lake.

8. Accessories : Do not place this CAMCORDER on an unstable cart, stand, tripod, bracket, or table.
The CAMCORDER , if dropped could cause damage or injury. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the CAMCORDER . Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

a. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surface may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING
(Symbol provided by RETAC)

9. Ventilation : Slot and opening in the cabinet are provided for ventilation to ensure reliable operation of the CAMCORDER and to protect it from overheating. These openings must not be blocked or covered. Never place your CAMCORDER on a bed,sofa,rug,or other similar surface on or near a radiator or heat register. This CAMCORDER should not be placed in a built-in installation such as a book case or rack unless proper ventilation is provided or manufacturer's instructions have been adhered to.

10. Power Sources :This CAMCORDER should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. To operate the CAMCORDER by battery or other power source, consult the operating instructions.

11.Grounding and Polarization: This CAMCORDER may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature.
If you are unable to insert the plug fully into the outlet,try reversing the plug. If the plug still fails to fit, contact your electrician to replace your outlet. Do not defeat the safety purpose of the polarized plug.

12. Power-Cord Protection : Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially cords of plugs and convenience receptacles, at the point where they exit from the unit.

13. Lightning : For added protection of this CAMCORDER during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage of the CAMCORDER from lightning and power-line surges.

14. Power Lines : An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, where it can fall into such power lines or circuit. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

15. Overloading : Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. Objects and Liquids : Never push objects of any kind into the CAMCORDER as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquids of any kind onto the CAMCORDER. Should spill occur, unplug unit and have it checked by a technician before use.

17. Servicing : Do not attempt to service this CAMCORDER yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service person.

18. Damage Requiring Service : Unplug this CAMCORDER from the wall outlet and refer servicing to qualified service personnel under the following conditions :

a. When the power-supply cord or plug is damaged.
b. If any liquid has been spilled into, or objects have fallen in the CAMCORDER.
c. If the CAMCORDER has been exposed to rain or water.
d. If the CAMCORDER does not operate normally by following the operating instruction, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the CAMCORDER to its normal operation.
e. If the CAMCORDER has been dropped or the cabinet has been damaged.
f. When the CAMCORDER exhibits a distinct change in performance, this indicates a need for service.

19. Replacement Parts : When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part.
Unauthorized substitutions may result in fire, electric shock or other hazards.

20. Safety Check : Upon completion of any service or repairs to this CAMCORDER , the safety check procedure should be performed.

IMPORTANT SAFETY NOTICE
There are special components in this equipment which are important for safety. These parts are marked by ⚠ in the schematic diagram, exploded views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts owing to shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

WARNING ;
Lithium battery - Danger of explosion if incorrectly replaced.
Must only be replaced by a battery of same make and type.
Used batteries shall be returned to the supplier.

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera anvant batteri enligt fabrikantens instruktion.

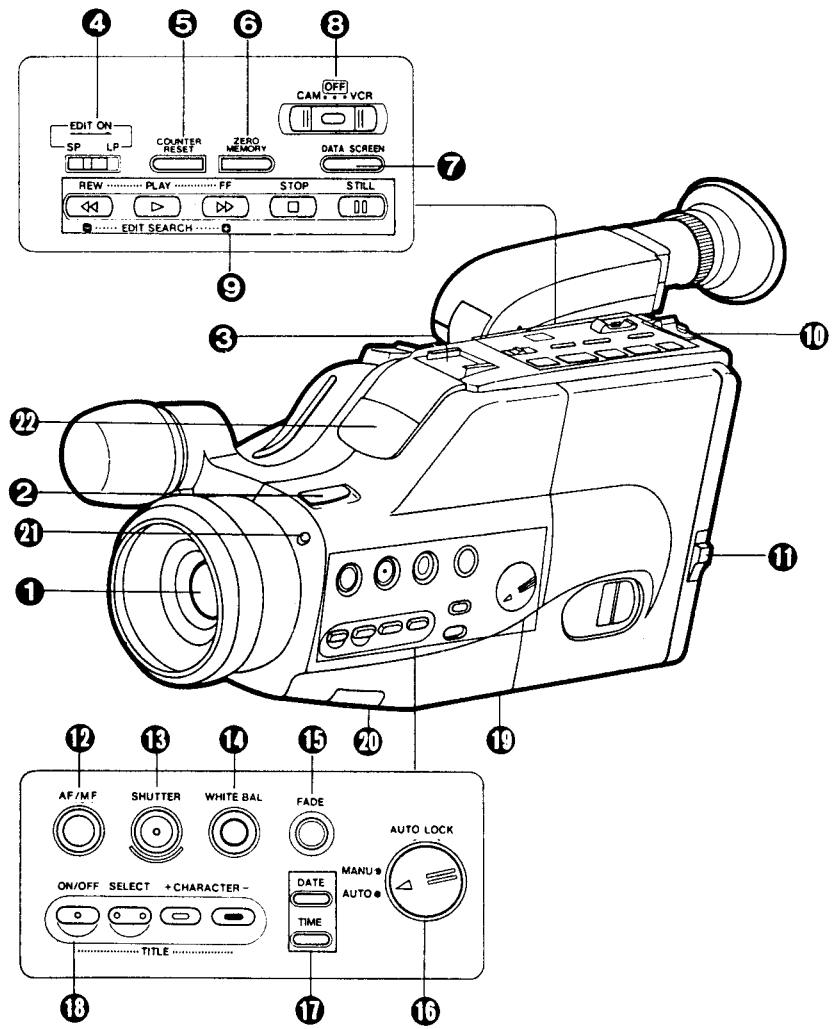
ADVARSEL
Lithiumbatteri - Eksplosionafare ved fejlagtig håndtering.
Udskifthing må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS
Earisto voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ADVARSEL
Lithiumbatteri - Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

http://www.ManualsCenter.com

CONTROLS AND COMPONENTS-I



1 **LENS**
F1.8(f=6.0~48mm), ×8
POWER ZOOM LENS features auto focus and auto iris function.

2 **MANUAL FOCUS ADJUST BUTTON**
When the focus mode is the MANUAL FOCUS, you can adjust focus as desired by pressing the FAR or NEAR button.

3 **ACCESSORY SHOE**
Used to attach a camera light (not supplied).

4 **RECORD SPEED AND EDIT ON/OFF SELECTION SWITCH**

Mode	Recording	Playback	Editing
Setting	EDIT ON SP LP	EDIT ON SP LP	EDIT ON SP LP
Function	Recording mode switch	EDIT switch	

⑤ **COUNTER RESET BUTTON**
Press to reset the counter to zero.

⑥ **ZERO MEMORY BUTTON**
Used to memorize the counter zero point.

⑦ **DATA SCREEN BUTTON**
Press to display the indication on the TV.

⑧ **POWER SELECT SWITCH**
CAM : For camera recording
OFF : Power off
VTR : For playing back of edited or recorded tapes.

⑨ **VTR FUNCTION BUTTON**
These buttons will not operate unless POWER select switch is in the VTR position.
▶(playback) ■(stop) ◀◀REW(rewind)
▶▶FF(fast forward) ▮▮(still)

⑩ **TAPE EJECT SWITCH**
Slide this switch to open the cassette door for tape insertion or removal.

⑪ **BATTERY EJECT LEVER**
Release the battery attached to the CAMCORDER.

⑫ **AUTO/MANUAL FOCUS MODE SELECT BUTTON**
When the AUTO LOCK switch is MANUAL position, the focus mode is selected by this button.

⑬ **SHUTTER SPEED CONTROL BUTTON**
Used to control the shutter speed.

⑭ **WHITE BALANCE BUTTON**
Used for manual white balance adjustment.

⑮ **FADE BUTTON**
During recording, you can add a professional touch to your recordings by fading in and out of scenes.

⑯ **AUTO LOCK SWITCH**
Keep this switch in AUTO LOCK position when adjusting the FOCUS, WHITE BALANCE or SHUTTER SPEED automatically.
To adjust these manually, set this switch to MANUAL position.

⑰ **DATE/TIME BUTTON**
Press to display or turn off the date or time.

⑱ **TITLE BUTTON**
TITLE ON/OFF and CHARACTER SELECT BUTTON.

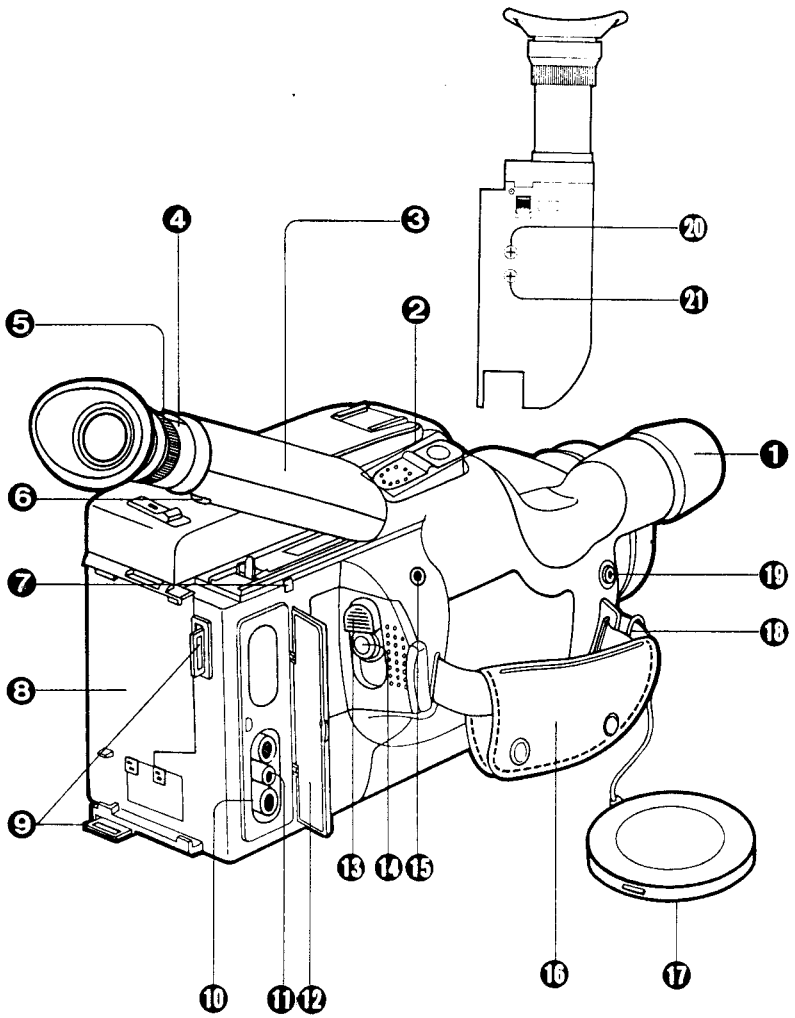
⑲ **TRIPOD RECEPTACLE**
The length of the camera mounting screw must be less than 9mm.

⑳ **LITHIUM BATTERY COMPARTMENT**
Open the cover of bottom and insert new battery.

㉑ **CAMERA RECORD INDICATOR**
Lights during camera recording.

㉒ **REMOTE CONTROL WINDOW**
Remote control signal is received by this.

CONTROLS AND COMPONENTS-II



① **MICROPHONE**
Is built-in the CAMCORDER.

② **POWER ZOOM SWITCH**
The switch performs zooming electrically.
W : Picture gradually becomes wider
T : Picture gradually becomes tighter

③ **ELECTRONIC VIEWFINDER (EVF)**
Displays in black and white what the CAMCORDER lens sees, the electronic viewfinder also functions as convenient black and white monitor during playback of recorded material.

④ **EYE CAP**

⑤ **EVF FOCUS CONTROL RING**
To use the electronic viewfinder without eye glasses, turn this control ring for your optimum focus adjustment.

⑥ **EYE CAP SEPARATION KNOB**
Press this knob to remove the eye cap from EVF.

⑦ **EVF SLIDE CONTROL KNOB**
While pressing this knob, move the EVF

⑧ **BATTERY MOUNTING POSITION**

⑨ **HOOKS FOR SHOULDER STRAP**
Attach a shoulder strap.

⑩ **AUDIO/VIDEO OUT(output) JACKS**
(phono jacks)

⑪ **RFU DC OUT**
Supplies power to RF unit.

⑫ **A/V OUT JACK PROTECTION COVER**
Normally close the cover to prevent dust and moisture from inside of A/V OUT JACK.

⑬ **LOCK STANDBY SWITCH**
Slide up to STANDBY to set the CAMCORDER to recording pause mode.

⑭ **CAM REC START/STOP button**
Press to start and stop camera recording.

⑮ **EARPHONE JACK**
Sound being recorded by the microphone or played back may be monitored by attaching earphone (not supplied)to this jack.

⑯ **HAND STRAP**
Adjsut to best fit your hand.

⑰ **LENS CAP**
Normally close the cap for protection of the lens.

⑱ **LENS CAP TAB**
Place the lens cap on this tab when you are ready to record a scene. The tab also prevents the lens cap from swinging around on its cord.

⑲ **EXTERNAL MIC JACK**
Connect an external microphone(not supplied) here to record sound from an external microphone.

NOTE
Connecting an external microphone automatically switches off the built-in microphone.

⑳ **BRIGHTNESS ADJUSTMENT HOLE**
Adjust the brightness of the image on the EVF screen. (dark or bright)

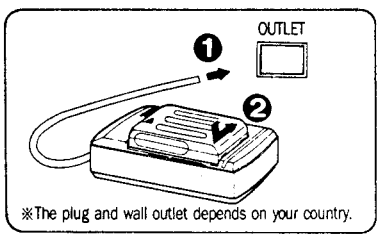
㉑ **FOCUS ADJUSTMENT HOLE**
Adjust the focus of the image on the EVF screen.

NOTE
Brightnees and focus have been set at the factory. But, should it become necessary, be careful to make the focus and brightness adjustment with a small, slender screwdriver.

USING THE BATTERY PACK

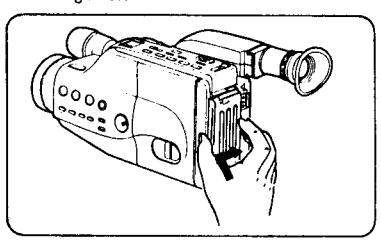
FIRST, CHARGE THE BATTERY PACK.
- Use the AA-E1P AC power adaptor.

TO CHARGE THE BATTERY PACK.
1. Connect the AA-E1P to a wall outlet.
2. Attach the battery pack to the AA-E1P
- While pressing the battery pack, slide it as illustrated.

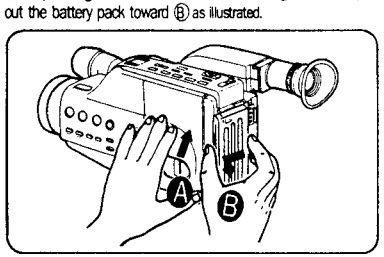


※The plug and wall outlet depends on your country.

TO ATTACH THE BATTERY TO THE CAMCORDER.
1. While pressing the battery pack, slide it to the right as illustrated.
2. Make sure that the battery pack is fitted completely to the mounting surface.



TO REMOVE THE BATTERY PACK.
While pressing the BATT EJECT knob toward Ⓐ slide and pull out the battery pack toward Ⓑ as illustrated.



BATTERY	CHARGING TIME	CONTINUOUS REC TIME
NB-E60A	about 1hr	about 40min
NB-E120A	about 2hr	about 80min

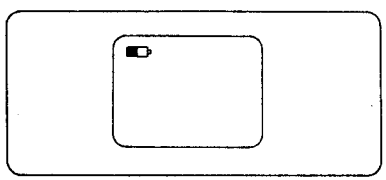
- NB-E120A is not supplied.

NOTES

1. Using time of battery pack is depending on how much you use ZOOM and STANDBY.
2. When the CAMCORDER is not in use, remove the battery pack preventing power consumption.

BATTERY LEVEL CHECK

The battery level indicators in the camcorder's viewfinder display how much time is left on the battery.
Press the DATA SCREEN button on the CAMCORDER to display the battery level indicator in the viewfinder.



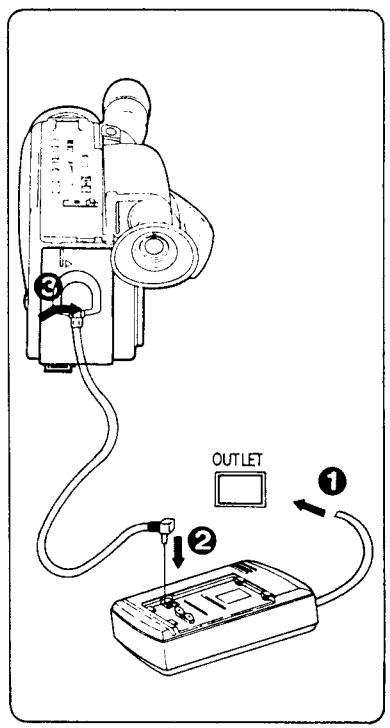
Displayed mark indicates the present residual level of battery.
- When the battery is full charged the mark will be. ( )
- When the battery is nearly empty the mark will be. ( )
- When the battery level indicator starts blinking, it is time to recharge the battery. ( )

CAUTION

When the battery reaches its empty level during use, the CAMCORDER will shut off. However, the battery should have enough reserve power to eject the cassette when you slide the EJECT button.
If the CAMCORDER does not eject the cassette when you slide EJECT, do not attempt to force the cassette door open. This will damage your CAMCORDER.

USING AC POWER ADAPTOR

TO USE AC POWER ADAPTOR.
1. Connect AC power adaptor to a wall outlet.
2. Insert the DC CABLE supplied with the AA-E1P(AC power adaptor)into the DC OUT jack on the AC power adaptor.
3. While pressing the connecting plate, slide it to the right.

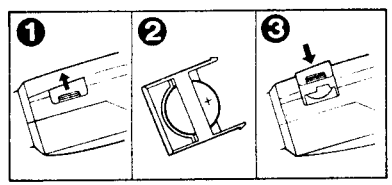


TO REMOVE THE CONNECTING PLATE FOR THE AC POWER ADAPTOR FROM THE CAMCORDER, while pressing the BATT EJECT knob on the CAMCORDER, slide and pull out the connecting plate.

USING LITHIUM BATTERY

This CAMCORDER uses a lithium battery to activate the clock and keep a title in memory. Before operating the CAMCORDER for the first time, install the supplied lithium battery.

TO INSERT THE LITHIUM BATTERY
1. To remove the lid of the lithium-battery compartment, slide it in the direction of the arrow.
2. Install the supplied lithium-battery with the ⊕ side facing out.
3. Insert the lid.



LITHIUM BATTERY LIFE
Approximately 1 year in normal operation.
When the lithium battery becomes weak, the time indication will blink on the viewfinder screen for about 5 seconds after the POWER switch has been set to CAMERA. In this case, replace the battery with CR2025 lithium battery.
After replacing the battery, readjust the date, time and title. (If the battery is replaced with the battery pack attached, the readjustments are not necessary.)

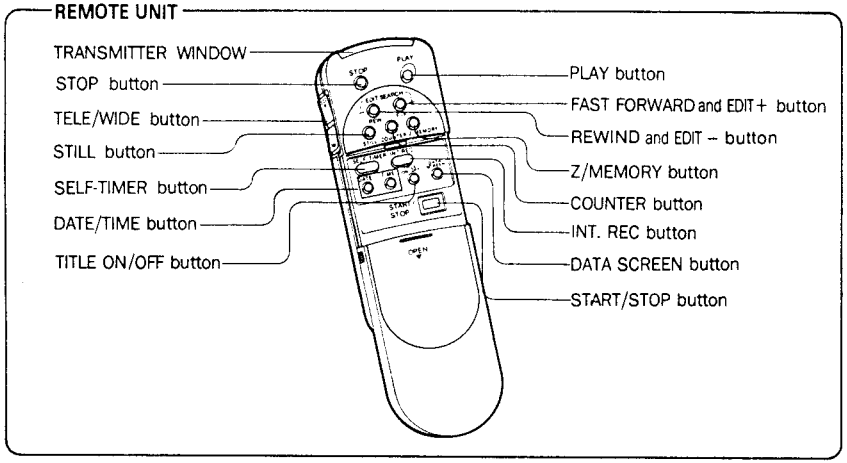
WARNING
Lithium battery-danger of explosion if incorrectly replaced. Must only be replaced by a battery of same make and type. Used batteries shall be returned to the supplier.

NOTES
- Keep the lithium battery out of the reach of children.
  Should the battery be swallowed, immediately consult a doctor.
- Wipe battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WIRELESS REMOTE CONTROL

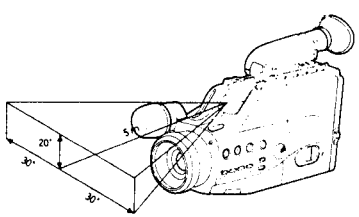
REMOTE CONTROL

For convenience your Camcorder can be operated with an infrared wireless remote control. The buttons labelled on the Remote unit operate the same functions as those labelled on the camcorder.



OPERATING RANGE

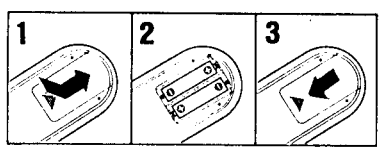
Point the remote control to the remote sensor of the Camcorder.
The Camcorder can be used within the range as illustrated.



Operating range is able to be shortened in out door because the Remote unit use an Infrared.
If you make an operation camcorder with the remote unit in out door, please locate the camcorder at shadowy area as long as possible.

INSTALLING BATTERIES

Insert two size "AAAM(R03)" batteries with correct polarity.



To avoid damage from possible battery leakage.
If you do not intend to use the remote for a long period of time, remove the batteries and store them in a cool, dry place.

Battery life
In normal operation, batteries will last up to half a year.
If the unit does not operate properly the batteries might be exhausted.
Replace both with new ones.

- Immediatly replace the batteries if they show signs of leakage.
- Do not heat, disassemble or short circuit the old batteries.

NOTES

- In "CAM" mode, the camcorder can receive the following commands.
  START/STOP, TELEPHOTO, WIDEANGLE, EDIT+, EDIT–, ZERO MEMORY, DATE, TIME, COUNTER RESET, DATA SCREEN, SELF TIMER, INTERVAL RECORD, TITLE ON.
- In "VTR" mode, the camcorder can receive the following commands.
  PLAY, STILL, REWIND, FAST RORWARD, STOP, ZERO MEMORY, COUNTER RESET AND DATA SCREEN.

1-6. REPLACEMENT PROCEDURE FOR LEADLESS (CHIP) COMPONENT

※ The following procedures are recommended for the replacement of the leadless components used in this unit.

1. Preparation for replacement

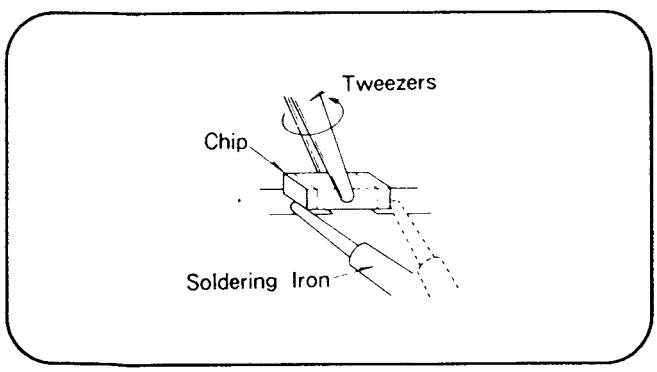
a. Soldering Iron
Use a pencil-type soldering iron that uses less than 30 watts.
b. Solder
Eutectic solder (Tin 63%, Lead 37%) is recommended.
c. Soldering time
Do not apply heat more than 4 seconds.
d. Preheating
Leadless capacitor must be preheated before installation. (130° C~150° C, for about two minutes).

Note :
a. Leadless component must not be reused after removal.
b. Excessive mechanical stress and rubbing of the component electrode must be avoided.

2. Removing the leadless component (Resistors, Capacitors)

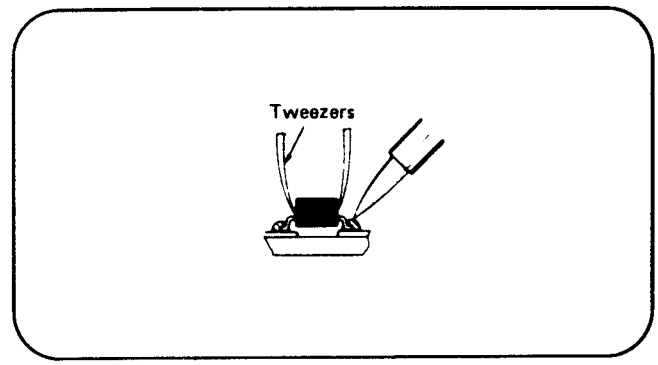
Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove leadless component with a twisting motion.

Note :
a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twising action.
b. Take care not to break the copper foil on printed board.

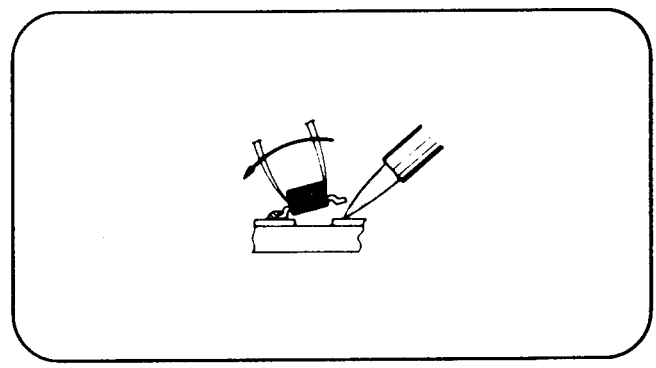


3. Removing the chip component (Transistors, Diodes)

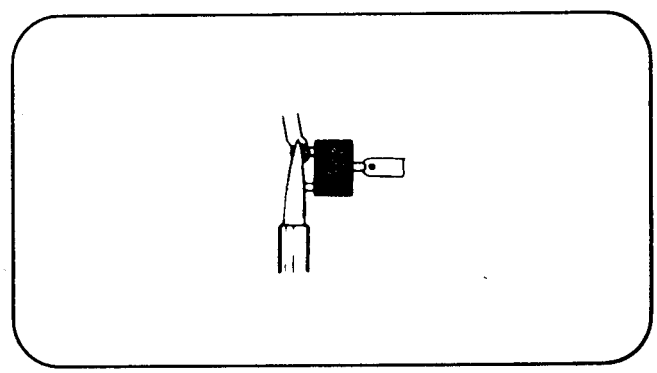
1) Melt the solder of one lead.



2) Lift the side of that lead upward.

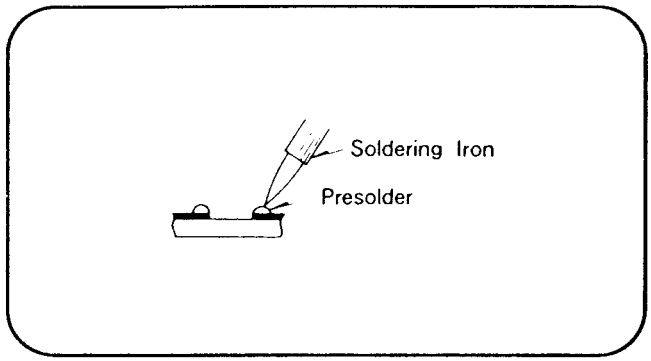


3) Simultaneously heat solder of the two remaining leads and lift part to remove.



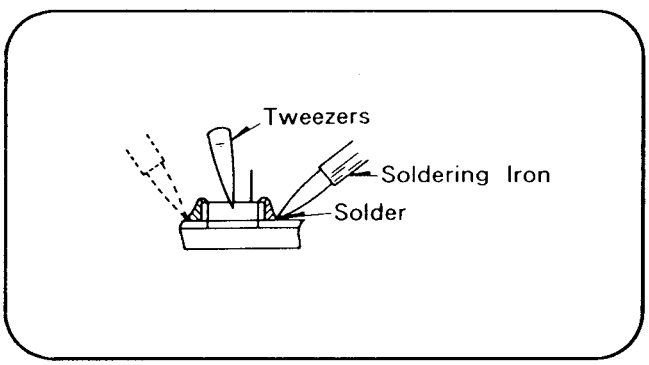
4. Installing the Leadless (chip) Component

1) Presolder the contact points of the circuit board.



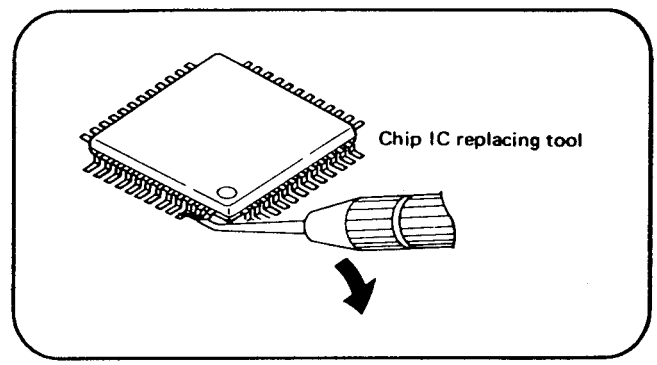
2) Press the part downward with tweezers and solder both electrodes as shown below.

Note :
Do not glue the replacement leadless component to the circuit board.



5. Removing of Flate ICs
(Recommendable manner)

1) For removing solder chips from IC's pins, use a solder remover or a wiry solder absorber.
2) Heat the IC's tips evenly by moving the chip IC replacing tool around them, and detach the IC's leads with a tool in the way of using a lever.
3) Do not reuse ICs removed once (Discard them).



1-7. HOW TO REPLACE LEADLESS (CHIP) COMPONENT

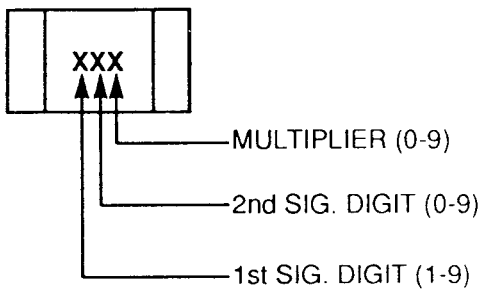
1. Check the followings before S.M.D Troubleshooting

* Cracked or Chipped Component Body
* Cracked or Separated Solder Joints
* Peeling end Terminations or Fractured Leads
* Rejection of Solder from Copper Pads or Component
* Foreign Matter on Copper Pads
* Solder Bridges

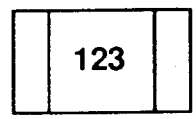
2. S.M.D (Surface Mounted Devices) Identification

1) Chip Resistor Identification

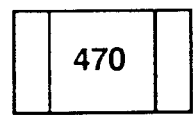
※ Standard Chip Resistor Code



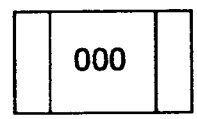
Examples



= 12 x 10^3(1000) = 12000 Ω
= 12K Ω



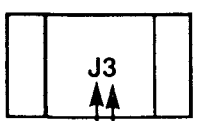
= 47 x 10^0 (1) = 47 Ω



= CHIP JUMPER = 0 Ω

2) Chip Capacitor Identification

※ Standard Two Place Code



= 2.2 x 10^3 (1000)
= 2200 pF

MULTIPLIER (0-9)

VALUE (1st & 2nd SIG. DIGITS)
- SEE TABLE 1

Examples

S2 = 4.7 x 100 = 470 pF

b0 = 3.5 x 1.0 = 3.5 pF

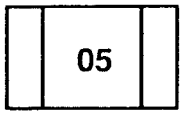
VALUE (33 VALUE SYMBOLS) - UPPER AND LOWER CASE LETTERS					MULTIPLIER
A — 1.0	H — 2.0	b — 3.5	f — 5.0	X — 7.5	0 = × 1.0
B — 1.1	J — 2.2	p — 3.6	T — 5.1	t — 8.0	1 = × 10
C — 1.2	K — 2.4	Q — 3.9	U — 5.6	Y — 8.2	2 = × 100
D — 1.3	a — 2.5	d — 4.0	m — 6.0	y — 9.0	3 = × 1000
E — 1.5	L — 2.7	R — 4.3	V — 6.2	Z — 9.1	4 = × 10000
F — 1.6	M — 3.0	e — 4.5	W — 6.8		5 = × 100000 etc.
G — 1.8	N — 3.3	S — 4.7	n — 7.0		

----- TABLE 1 -----

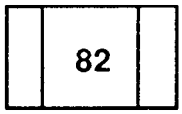
http://www.ManualsCenter.com

※ Alternate Two Place Code

• Values below 100 pF - Value Read Directly

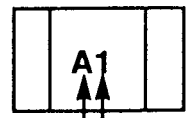


= 5 pF



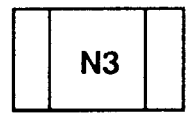
= 82 pF

Values 100 pF and above - Letter / Number Code



= 10 x 10
= 100 pF

MULTIPLIER (1-9)
VALUE (1st & 2nd SIG. DIGITS)
- SEE TABLE 2

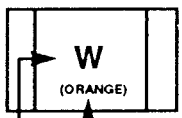


= 33 x 1000
= 33000 pF
= 0.33 uF

VALUE (24 VALUE SYMBOLS) - UPPERCASE LETTERS ONLY					MULTIPLIER
A — 10	F — 16	L — 27	R — 43	W — 68	1 = × 10
B — 11	G — 18	M — 30	S — 47	X — 75	2 = × 100
C — 12	H — 20	N — 33	T — 51	Y — 82	3 = × 1000
D — 13	J — 22	P — 36	U — 56	Z — 91	4 = × 10000
E — 15	K — 24	Q — 39	V — 62		5 = × 100000 etc.

----- TABLE 2 -----

※ Standard Single Place Code



= 4.7 x 1.0=4.7 pF

COLOR-MULTIPLIER

SYMBOL-VALUE
- SEE TABLE 3

Examples

R (Green) = 3.3 x 100 = 330 pF

7 (Blue) = 8.2 x 1000 = 8200 pF

VALUE (33 VALUE SYMBOLS) - UPPER AND LOWER CASE LETTERS					MULTIPLIER
A — 1.0	H — 1.6	N — 2.7	V — 4.3	3 — 6.8	ORANGE = × 1.0
B — 1.1	I — 1.8	O — 3.0	W — 4.7	4 — 7.5	BLACK = × 10
C — 1.2	J — 2.0	R — 3.3	X — 5.1	7 — 8.2	GREEN = × 100
D — 1.3	K — 2.2	S — 3.6	Y — 5.6	9 — 9.1	BLUE = × 1000
E — 1.5	L — 2.4	T — 3.9	Z — 6.2		VIOLET = × 10000
					RED = × 100000

----- TABLE 3 -----

1-8. ABBREVIATION

ATF	: Automatic Track Finding
AC	: Alternating Current
AGC	: Automatic Gain Control
AMP	: Amplifier
ASS'Y	: Assembly
AUTO	: Automatic
AE	: Auto Exposure
AF	: Auto Focus
A/D	: Analog/Digital
APC	Automatic Phase Control
ACK	: Automatic Color Killer
ACC	: Automatic Color Control
AFC	: Automatic Frequency Control
AFM	: Audio Frequency Modulation
ATT	: Attenuator
ADJ	: Adjust
ADD	: Adder
AUX	: Auxiliary
B	: Base
BATT	: Battery
BLK	: Black, Blanking
BLU	: Blue
BPF	: Band Pass Filter
BRN	: Brown
B/W	: Black/White
BLC	: Back Light Compensation
BF	: Burst Flag
BFG	: Burst Flag Gate
BUFF	: Buffer
CAP.	: Capstan
CASS(CC)	: Cassette
CBA	: Circuit Board Assembly
CCD	: Charge Coupled Device
CE	: Chip Enable
CH	: Channel
CHROMA or C	: Chrominance
COM	: Common
COMB	: Comb Filter
CN	: Connector
CTL	: Control
CRT	: Cathode Ray Tube
CAM	: Camera
CAMCORDER	: Camera Recorder
COMP	: Composite
CS	: Chip Selector
CM	: Capstan Motor
CG	: Character Generator
CLP	: Clamp
CNR	: Chroma Noise Reduction
CLK	: Clock
dB	: Decibel (Measurement Unit)
DC	: Direct Current
DEMOD	: Demodulator
DOC	: Drop Out Compensation
DD	: Direct Current Drive
DM	: Drum Motor
DET	: Detect
DL	: Delay Line
D/A	: Digital/Analog
DY	: Deflection Yoke
E	: Emitter
E-E	: Electronic to Electronic
EMP	: Emphasis
ENV	: Envelope
EQ	: Equalizer
EXT	: External
EVF	: Electronic View Finder
F	: Fuse
F.F	: Fast Forward, Flip-Flop
FE	: Flying Erase
FET	: Field Effect Transistor
FG	: Frequency Generator
FM	: Frequency Modulation
Fre.	: Frequency
FWD	: Forward
FPC	: Flexible Pattern Circuit
FPS	: Forward Picture Search
FL	: Filter
FSC	: Frequency Sub Carrier
G	: Gate, Grid
GEN	: Generator
GND	: Ground
GRN	: Green
GRY	: Gray
GC	: Gain Control
H	: Hour, High, Horizon
HG	: Hall Generator
HPF	: High Pass Filter
Hz	: Hertz
HMS Counter	: Hour Minute Second Counter
HD	: Head, Horizontal Drive
IC	: Integrated Circuit
ID	: Identification
IR	: Infrared

INT	: Interrupter
I/O	: Input/Output
IRE	: Institute of Radio Engineers
L	: Low
LI	: Lithium
LCD	: Liquid Crystal Display
LED	: Light Emitting Diode
LP	: Long Play
LM	: Loading Motor
LPF	: Low Pass Filter
M	: Mega
MAX	: Maximum
MIC	: Microphone
MIN	: Minimum
MIX	: Mixer
MT	: Motor
ME	: Metal Evaporated
MP	: Metal Particle, Mask Pulse
MTX	: Matrix
MOD	: Modulation
M/F	: Manual Focus
MCK	: Master Clock
NR	: Noise Reduction
NC	: Not Connected
NAND	: NOT-AND
OP AMP	: Operational Amplifier
ORN	: Orange
OSC	: Oscillation
OFD	: Overflow Drain
PB	: Play Back
PBLK	: Pre Blanking
PCM	: Pulse Coded Modulation
PG	: Pulse Generator
PLA	: Programmable Logic Array
PLL	: Phase Locked Loop
P-P	: Peak to Peak
PRE-AMP	: Pre-Amplifier
P/S	: Pause/Still
PWM	: Pulse Width Modulation
PWR	: Power
RAM	: Random Access Memory
REF	: Reference
REC	: Recording
REMOCON	: Remote Control
REV	: Reverse
REW	: Rewind
ROM	: Read Only Memory
RST	: Reset
RPS	: Reverse Picture Search
RF	: Radio Frequency
REG	: Regulation
SN	: Signal to Noise Ratio
SP	: Standard Play
SHD	: Sample Hold Data
SHP	: Sample Hold Precharge
SIG	: Signal
S/W	: Switch
SYNC	: Synchronization
SYSCON	: System Control
SENS	: Sensor
SI (DDS SI)	: Serial Data Input
SO (DDS SO)	: Serial Data Output
SCK	: Serial Clock
S FG	: Supply FG
STB	: Strobe
SHP	: Sharpness
TP	: Test Point
TR	: Transistor, Trimmer
T FG	: Take-up FG
UNREG	: Unregulated
V	: Volt, Vertical
V-sync.	: Vertical-sync.
VCO	: Voltage Control Oscillator
VR	: Variable Resistor
VXO	: Variable Crystal Oscillator
VCR	: Video Cassette Recorder
VP	: VTR Power
VA	: Video Audio
W	: Watt, Wide, Wire
WBLK	: Wide Blanking
WHT	: White
WND	: Window
X-TAL	: Crystal
Y-CLP	: Luminance Clamp
Y/C or YC	: Luminance/Chrominance
YEL	: Yellow

2. DISASSEMBLY

2-1. INSTRUMENT DISASSEMBLY

2-1-1. Cover-Housing Ass'y Removal

1. Remove two screws ①.
2. Disconnect Cover-Housing Ass'y ② in the direction of the arrow to remove it.

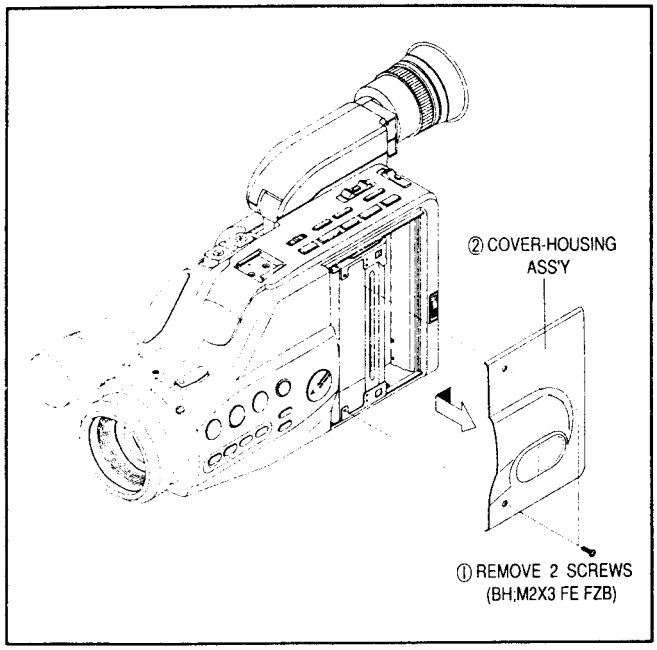


Fig. 1

2-1-2. Case- Top Ass'y Removal (See Fig. 2)

1. Remove two screws ①, two screws ②, one screw ③, and one screw ④.
2. Lift up Case-Top ass'y ⑤ in the direction of the arrow to remove it.

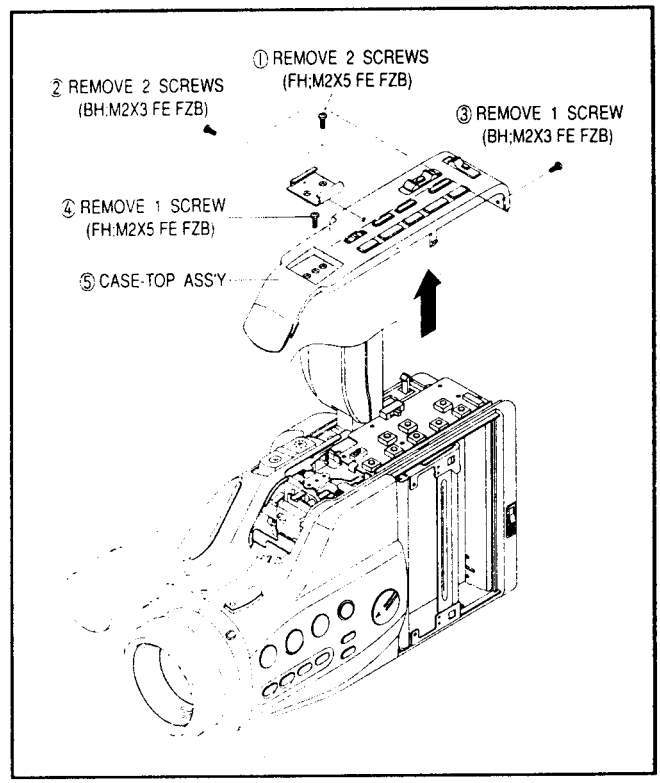

① REMOVE 2 SCREWS (FH;M2X5 FE FZB)
② REMOVE 2 SCREWS (BH;M2X3 FE FZB)
③ REMOVE 1 SCREW (BH;M2X3 FE FZB)
④ REMOVE 1 SCREW (FH;M2X5 FE FZB)
⑤ CASE-TOP ASS'Y

Fig. 2

2-1-3. Case-L/R Ass'y Removal (See Fig. 3)

1. Remove one screw ① ② ③ ④, and two screws ⑤.
2. Disconnect Case-R ⑦ ass'y in the direction of arrow to remove it.
3. Disconnect connector ⑧ (CNF01) from camera function board ⑨ inside Case-R ass'y ⑦.

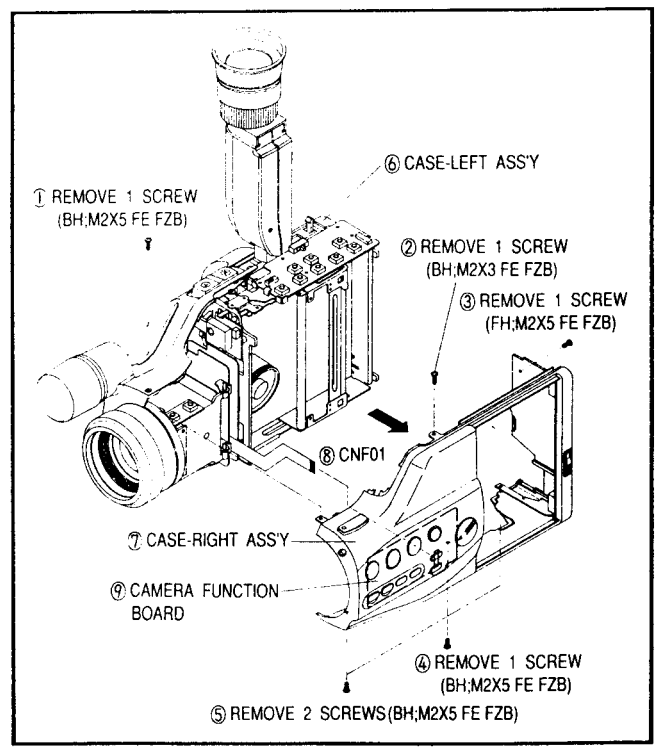

⑥ CASE-LEFT ASS'Y
① REMOVE 1 SCREW (BH;M2X5 FE FZB)
② REMOVE 1 SCREW (BH;M2X3 FE FZB)
③ REMOVE 1 SCREW (FH;M2X5 FE FZB)
⑧ CNF01
⑦ CASE-RIGHT ASS'Y
⑨ CAMERA FUNCTION BOARD
④ REMOVE 1 SCREW (BH;M2X5 FE FZB)
⑤ REMOVE 2 SCREWS (BH;M2X5 FE FZB)

Fig. 3

2-1-4. CAMERA Section Removal

1. Remove one screw ① and two screws ②.
2. Take out the camera-ass'y ③ from the Case-L ass'y in the direction of arrow.
3. Disconnect five connectors ④ ⑤ ⑥ ⑦ ⑧.

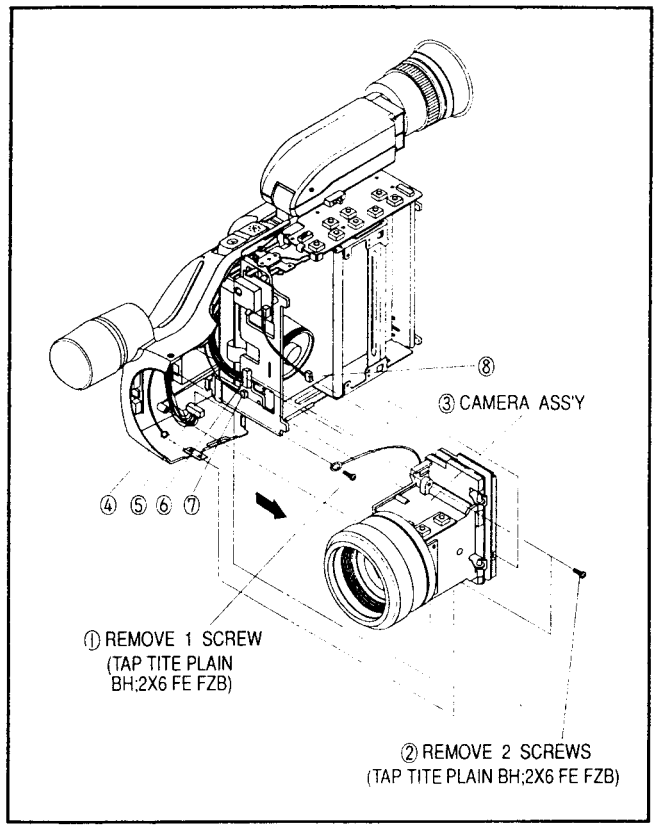


Fig. 4

2-1-5. CAMERA Section PCB Removal (See Fig. 5)

1. Remove one screw ① and take out lens drive board ② in the direction of arrow "A", then disconnect two connectors ③ (CNL01, CNL02).
2. Release two hooks ④ and remove Process board ⑤ in the direction of arrow "B".
3. Disconnect three connectors ⑥ ⑦ ⑧ and lift up Process board ⑤ and Auto board ⑨ in the direction of arrow "C".
4. Remove Auto board ⑨ from Process board ⑤ toward arrow "D".
5. Remove two screws ⑩ and CCD Drive board ⑪ toward arrow "E".

2-1-6. VTR Section Removal (See Fig. 6)

1. Remove one screw ①, two screws ②, and one screw ③.
2. Take out VTR section ④ in the direction of arrow.
3. Disconnect three connectors ⑤ ⑥ ⑦.
4. Take out DC/DC Converter ⑧.

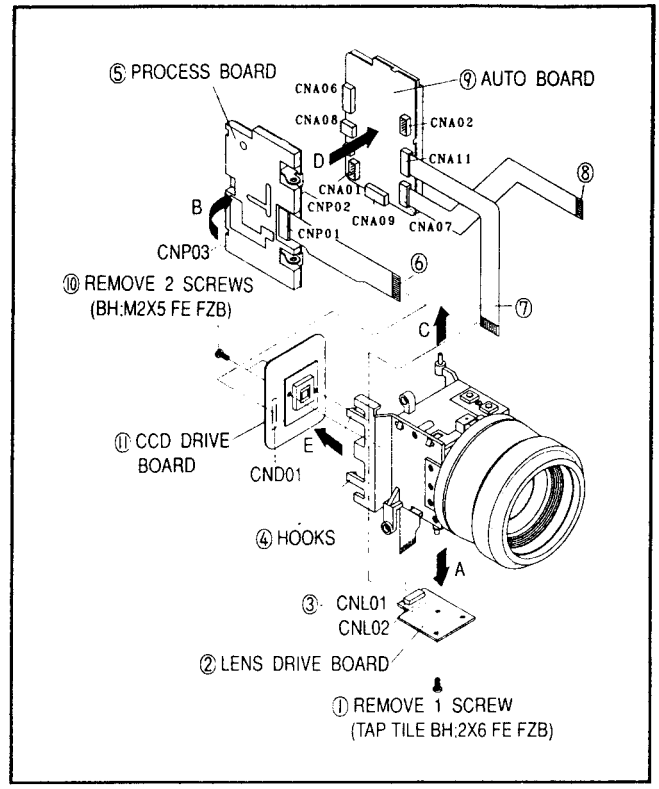


Fig. 5

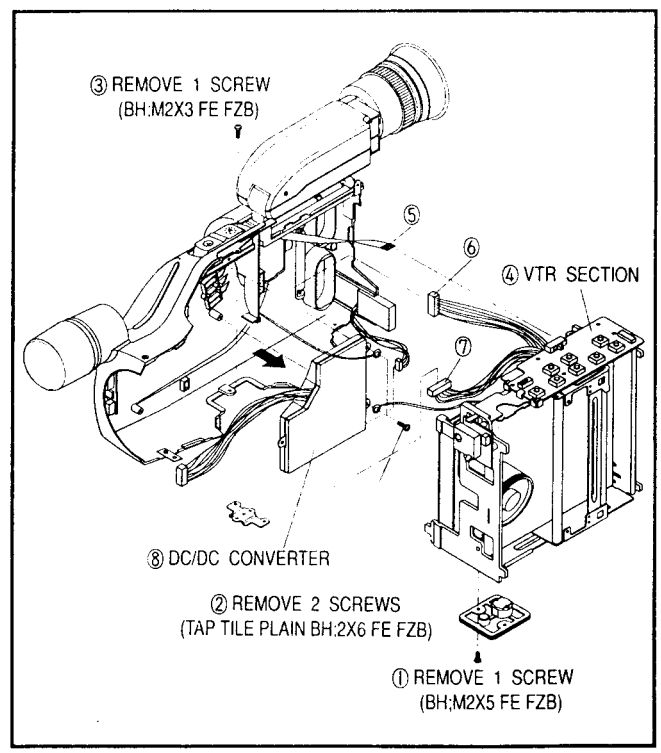


Fig. 6

2-1-7. VTR Section PCB Removal (See Fig. 7)

1. Remove one screw ① and connector ②, then lift up VTR Function board toward arrow "A".
2. Remove two screws ④ and two connectors ⑤, then take out Video board ⑥ toward arrow "B".
3. Remove one screw ⑦ and nine connectors ⑧ ⑨ ⑩ ⑪, then take out Main board ⑫ toward arrow "C".

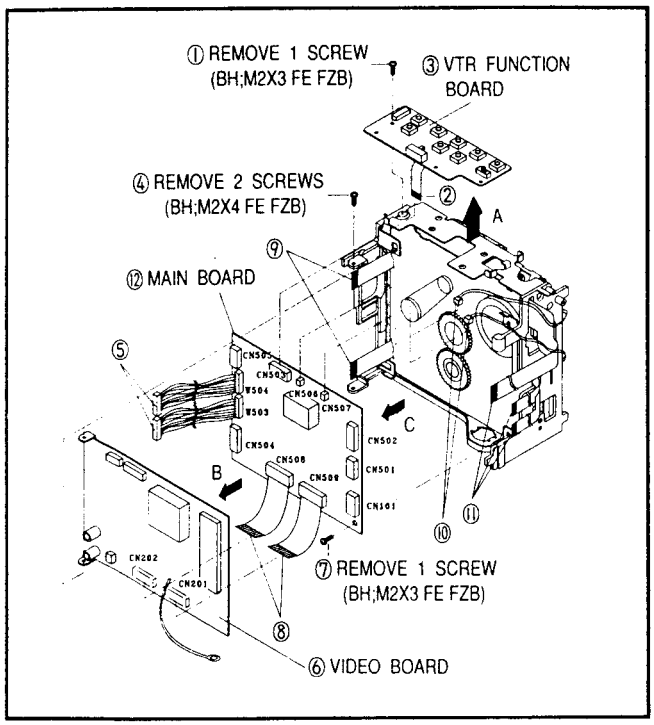


Fig. 7

2-1-8. EVF Ass'y Removal (See Fig. 8 and Fig. 9)

1. Remove four screws ①. (See Fig. 8)
2. Disconnect EVF ass'y in the direction of arrow "A" to remove it. (See Fig. 8)
3. Disconnect Body Eye Lens ass'y ② in the direction of arrow "B" to remove it. (See Fig. 8)
4. Remove two screws ③ and one screw ④, then lift up Case-Top EVF ⑤. (See Fig. 9)
5. Disconnect EVF board ⑥ and CRT ass'y ⑦ in the direction of arrow "A" to remove it. (See Fig. 9)
6. Remove one screw ⑧ and one screw ⑨. (See Fig. 9)
7. Disconnect Rail-EVF ⑩ in the direction of arrow "B" to remove it. (See Fig. 9)
8. Remove one screw ⑪.

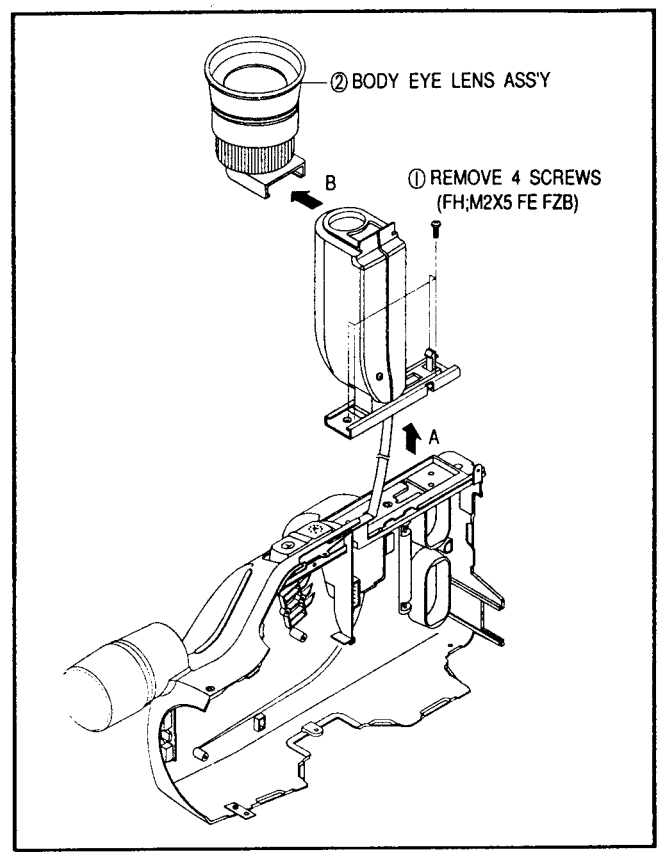


Fig. 8

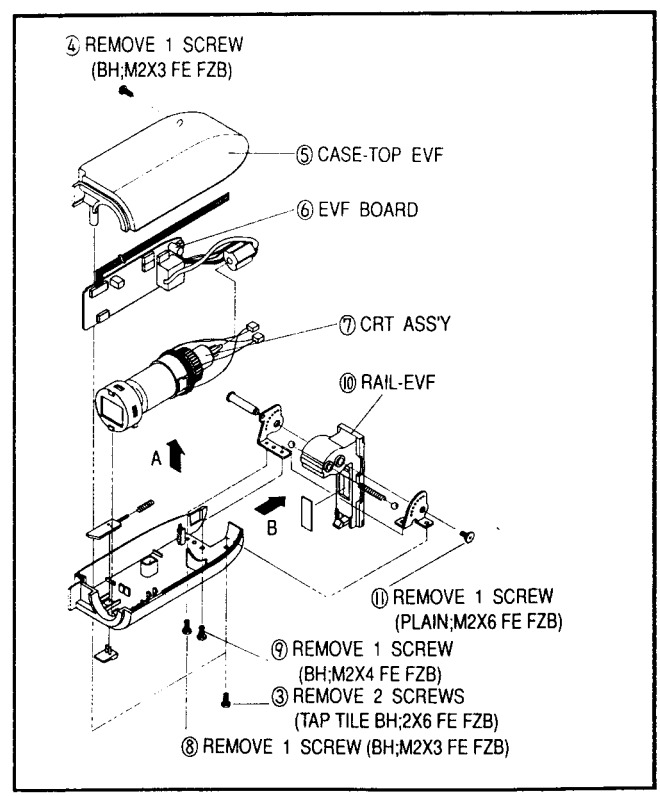


Fig. 9

http://www.ManualsCenter.com

2-1-9. Circuit Boards Location

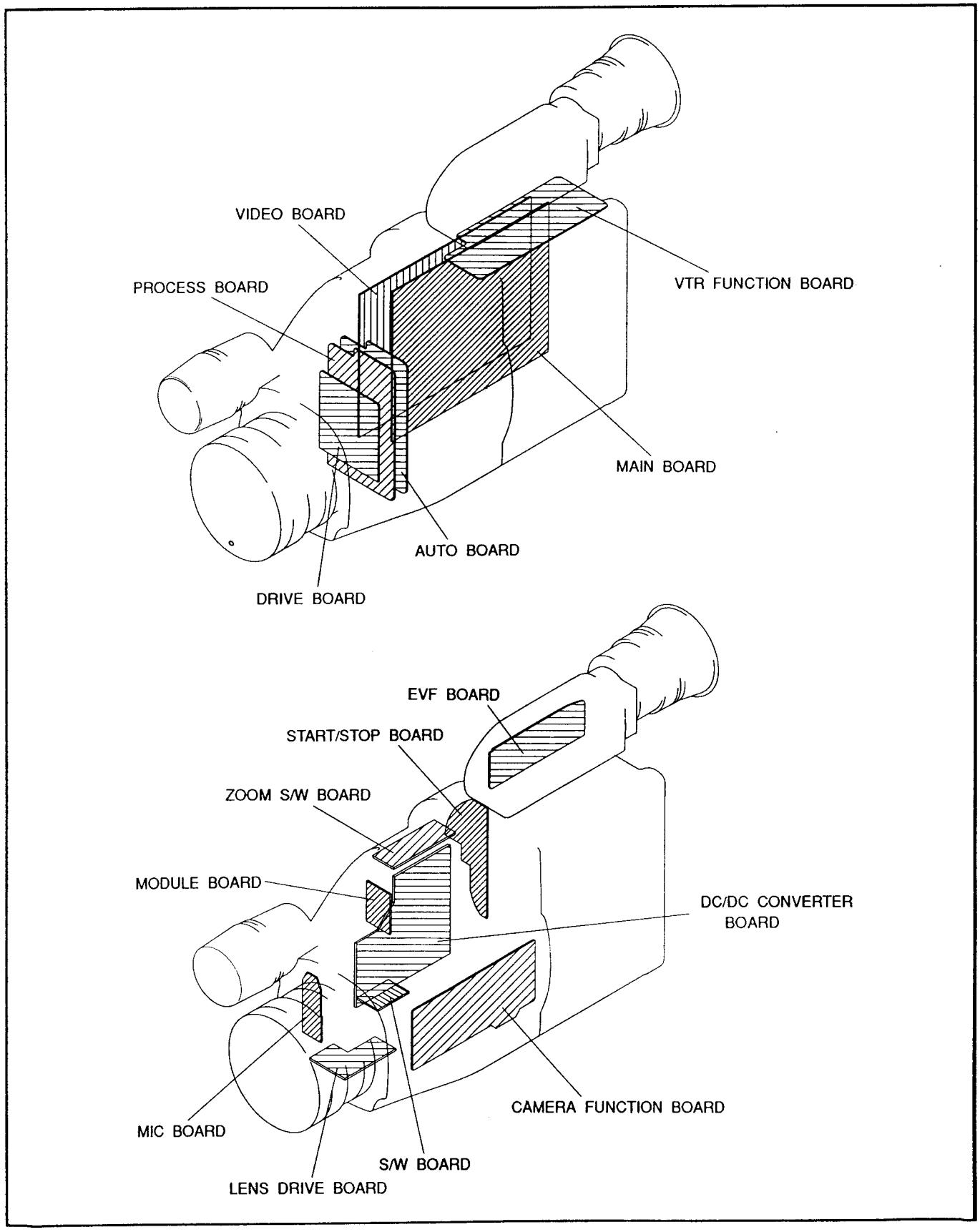


Fig. 10

2-2. PREPARATIONS FOR MECHANICAL BLOCK & ADJ. AND REPLACEMENT

*** MECHANICAL PARTS LOCATION**

(TOP VIEW)

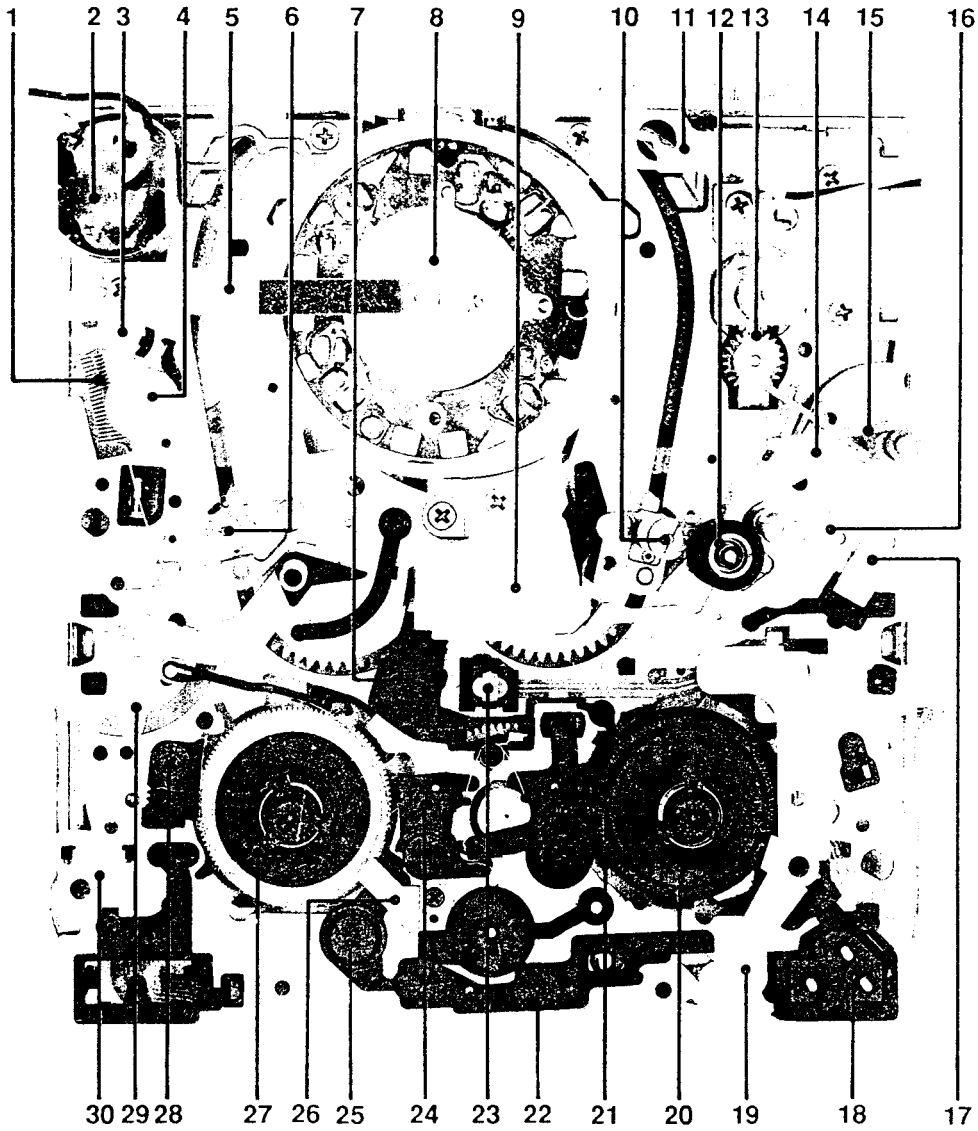


Fig. 11

1. SPRING-TENSION
2. LOADING MOTOR ASS'Y
3. ADJUST-TENSION SPRING
4. ROLLER-IMPEDANCE
5. EARTH BRUSH ASS'Y
6. POLE BASE S ASS'Y
7. STOPPER-IDLER
8. DRUM ASS'Y
9. GUARD-GUIDE
10. POLE BASE T ASS'Y
11. DEW SENSOR ASS'Y
12. PINCH ROLLER ASS'Y
13. CAPSTAN GEAR ASS'Y
14. PINCH ARM ASS'Y
15. SPRING-PINCH ARM
16. TAPE GUIDE ASS'Y
17. PLATE-T.G
18. DETECTOR-RECOGNITION
19. LEVER-BRAKE
20. REEL DISK T ASS'Y
21. BRAKE-T
22. LEVER-L.B
23. LED-IR
24. BRAKE-S
25. BRAKE-LOADING
26. PLATE-TENSION BAND
27. REEL DISK S ASS'Y
28. HOLDER BAND ASS'Y
29. ARM TENSION ASS'Y
30. PLATE-CASS. S/W

(BOTTOM VIEW)

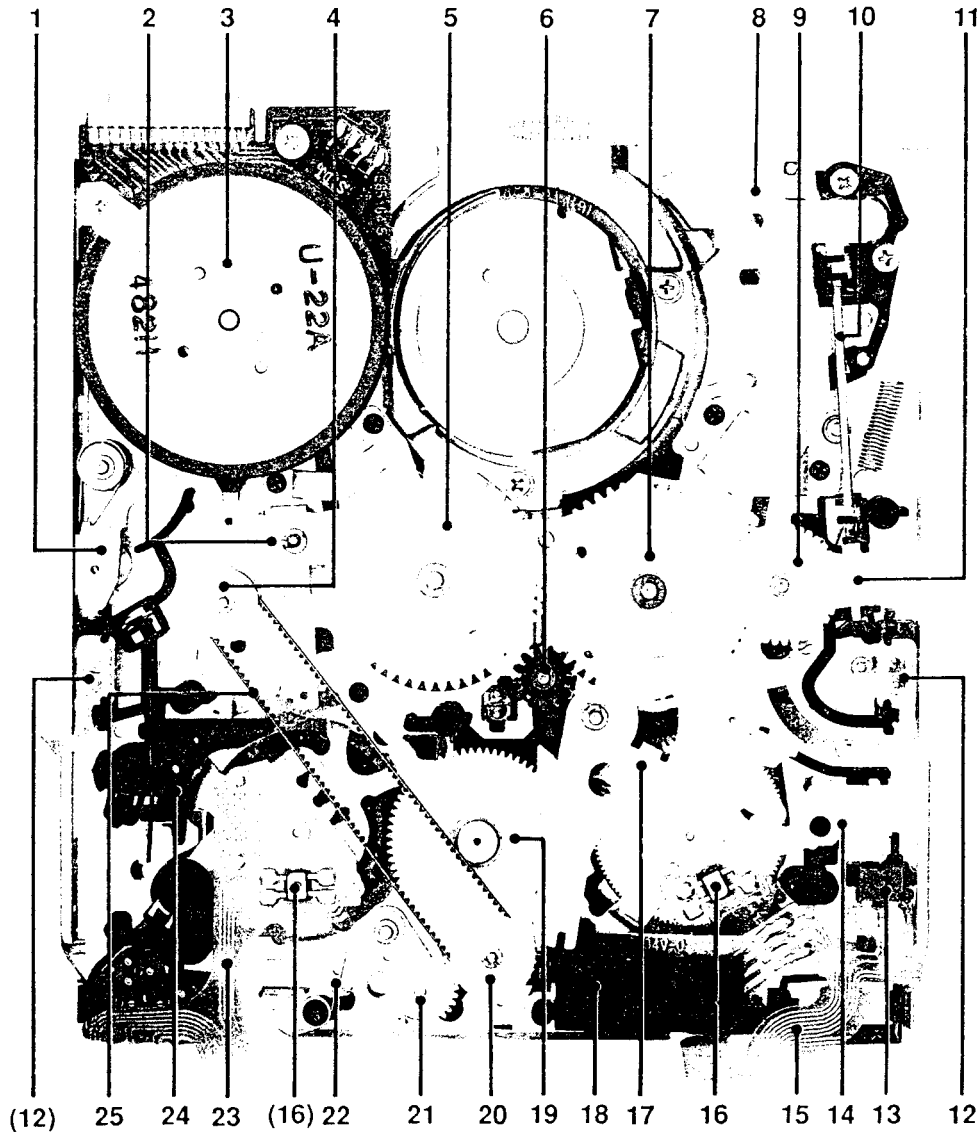


Fig. 12

1. PINCH LEVER ASS'Y
2. LOADING LEVER ASS'Y
3. MOTOR-CAPSTAN
4. RELAY PULLEY ASS'Y
5. CAM T ASS'Y
6. GEAR-U.L B
7. CAM S ASS'Y
8. SUPPORT-S ASS'Y
9. GEAR-DRIVE CAM
10. SHAFT-LOADING
11. WORM-LOADING
12. SENSOR-START/END
13. SWITCH-CASSETTE
14. LEVEL EJECT
15. FPC S ASS'Y
16. SENSOR-REEL
17. MODE LEVER ASS'Y
18. MODE SWITCH ASS'Y
19. IDLER ASS'Y
20. GEAR DRIVE IDLER ASS'Y
21. LB GEAR ASS'Y
22. SPRING-LB
23. FPC T ASS'Y
24. SOFT BRAKE ASS'Y
25. BELT-TIMING IDLER

(HOUSING ASS'Y)

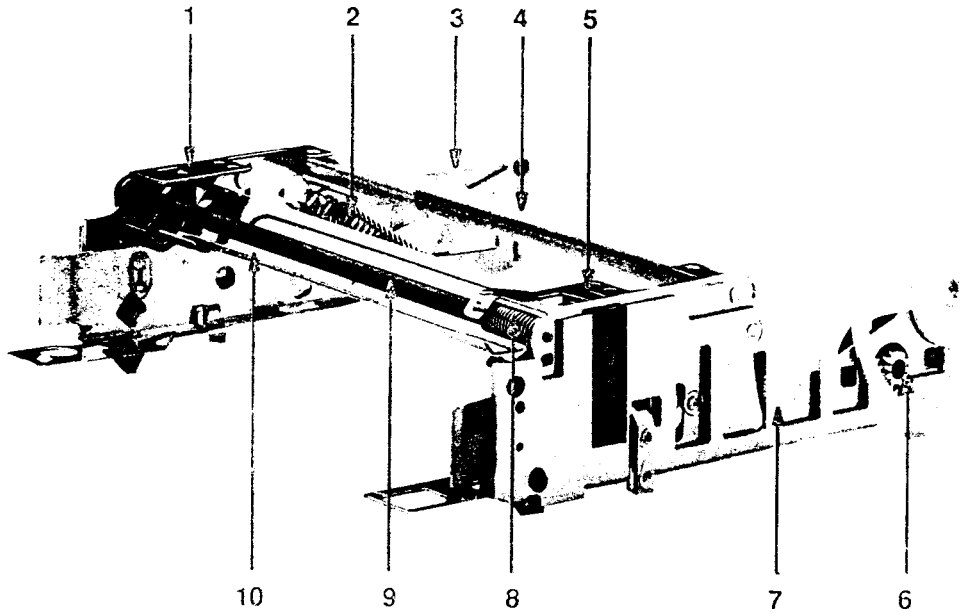


Fig. 13

1. LEVER-HOUSING L
2. SPRING-HOUSING BRKT
3. BRACKET-HOUSING L
4. SHAFT-HOUSING
5. LEVER-HOUSING R
6. DAMPER-HOUSING
7. BRACKET-HOUSING R
8. SPRING-LOCK LEVER HOUSING
9. HOLDER-LOCK LEVER
10. PLATE-HOUSING

Note : For removal of the cabinet, the boards, the cassette compartment, etc., refer to the service guides.

2-2-1. OPERATION WITHOUT CASSETTE COMPARTMENT ASSEMBLY AND TAPE

Note : 1. Remove two (2) screws ⑥ and pull a cassette compartment up to remove.
2. The unit will not work if exposed to a strong light.

1. How to Trigger the Loading Operation (See Fig. 14)

1) Supply power to the unit after removing the cabinet, the camera block, the cassette compartment assembly, etc., as indicated in the service guides. (This will enable operation of the mechanical deck)
2) Cover the LED assembly with an opaque cap, etc. ①.
3) Attach a piece of tape to the detector recognition ② so that the pin is held down.
4) Push the Lever Eject ③ in the direction of the arrow Ⓐ. when you press play switch.

2. Setting the Playback Mode (See Fig. 14)

1) Follow the procedures for how to trigger the loading operation above.
2) Put the rubber band ④ around the S and T reels.
3) Press the PLAY switch of unit, then push and hold the Arm Tension Ass'y ⑤ in the direction of the arrow Ⓑ when the T reel starts to rotate (the band tension will be released, and the S Reel will start rotating).
4) To stop operation, press the STOP switch.

3. Eject Operation (See Fig. 14)

1) To eject, turn the EJECT switch on.

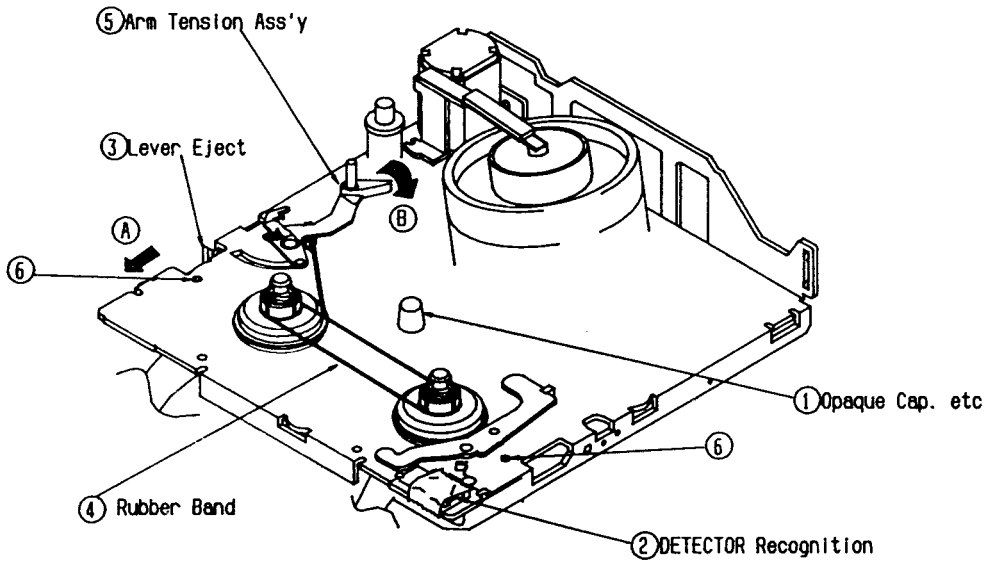


Fig. 14

2-3. MECHANICAL BLOCK CHECK, ADJUSTMENT AND REPLACEMENT

2-3-1. GUARD GUIDE

1. Removal (See Fig. 15)

Remove the screw ①, then remove the Guard Guide ②.

2. Installation (See Fig. 15)

1) Align the dowel ③ attached to the Guard Guide ② with the holes ④.
2) Secure the Guard Guide ② with the screw ①.

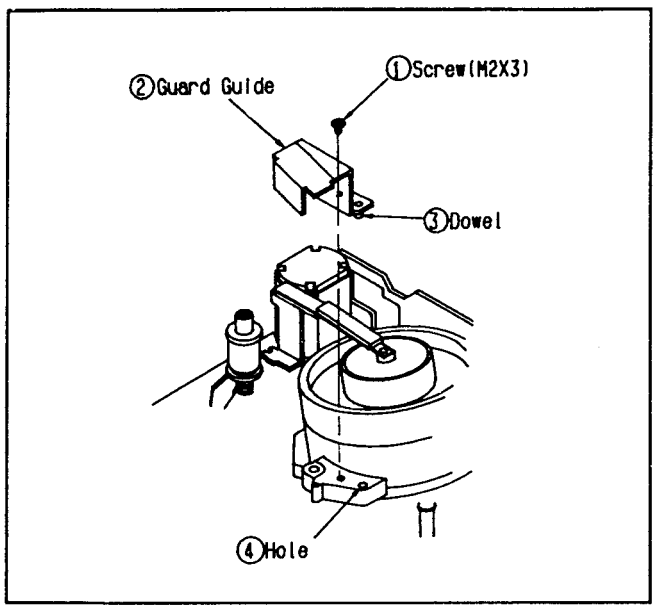


Fig. 15

2-3-2. CAPSTAN MOTOR ASS'Y

1. Removal (See Fig. 16)

1) Set the Uuload mode.
2) Remove the two screws ②, then remove the Capstan Motor Ass'y ③.

2. Installation (See Fig. 16)

1) Align the two dowels ④ with the two holes ⑤, then engage the toothed part ⑥ with the Capstan Gear Ass'y ⑦.
2) Secure the Capstan Motor Ass'y ③ with the two screws ②.

Note :

- When engaging the gears, be careful not to damage their teeth.
- Do not leave any clearance between the Capstan Motor and the chassis.
- Do not touch the Capstan Motor axle *, the oil seal* and the rotor *.

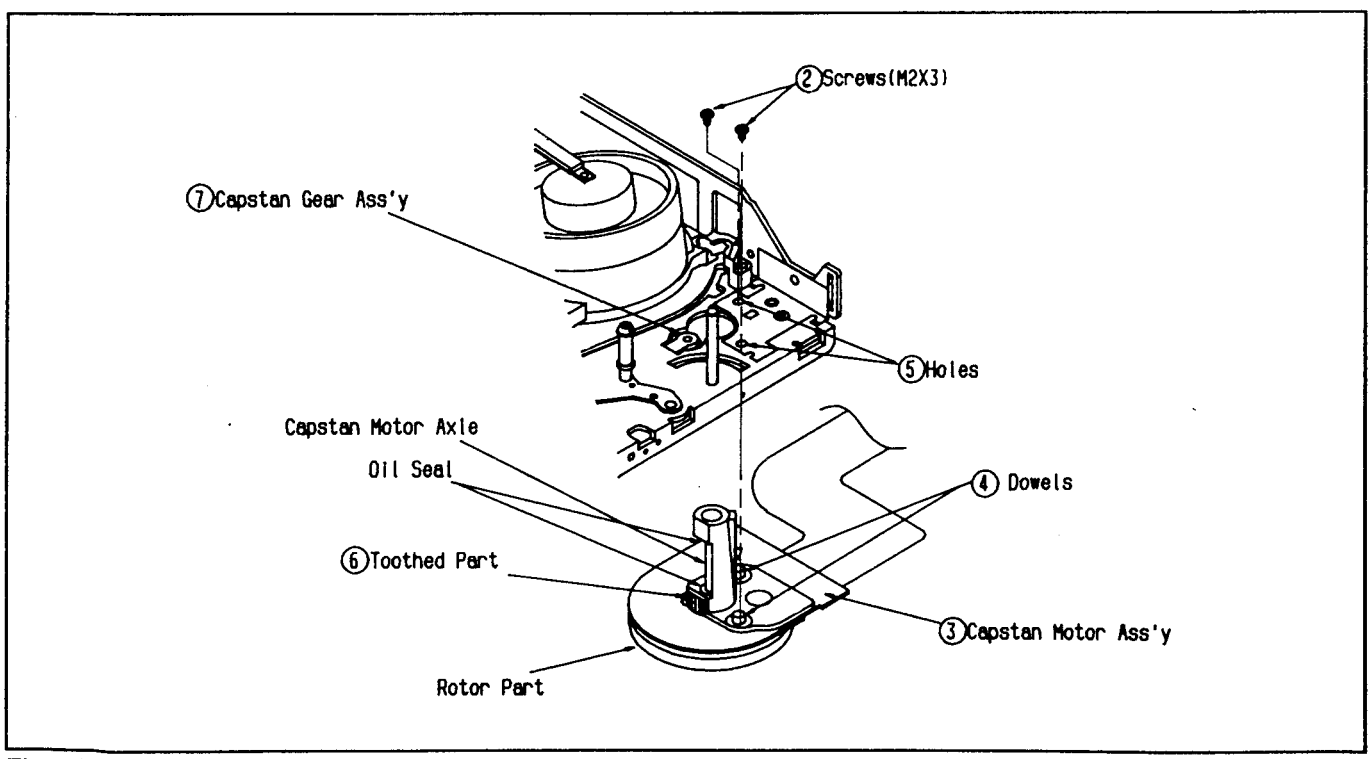


Fig. 16

2-3-3. BRAKE S & BRAKE T

1. Removal (See Fig. 17)

1) Remove the Spring Brake ①.
2) Remove the Cap Brake ②, then remove the Brake T ③.
3) Remove the Cap Brake ④, then remove the Brake S ⑤.

2. Installation (See Fig. 17)

1) While fitting the toothed part ⑥ into the notch ⑦, mount the Brake S ⑤.
2) Insert the Cap Brake ④.
3) Insert the axle ⑧ into the Lever Cam Brake ⑨. Then Ⓐ part will be closer to the Drum than Ⓑ part, and mount the Brake T ③.
4) Insert the Cap Brake ②.
5) Insert the Spring Brake ① below the claw ⑪ of the axle ⑩, then hook it to two claws ⑫.

Note : Confirm that the claws of Cap Brake ② and ④ are not broken before assembling.

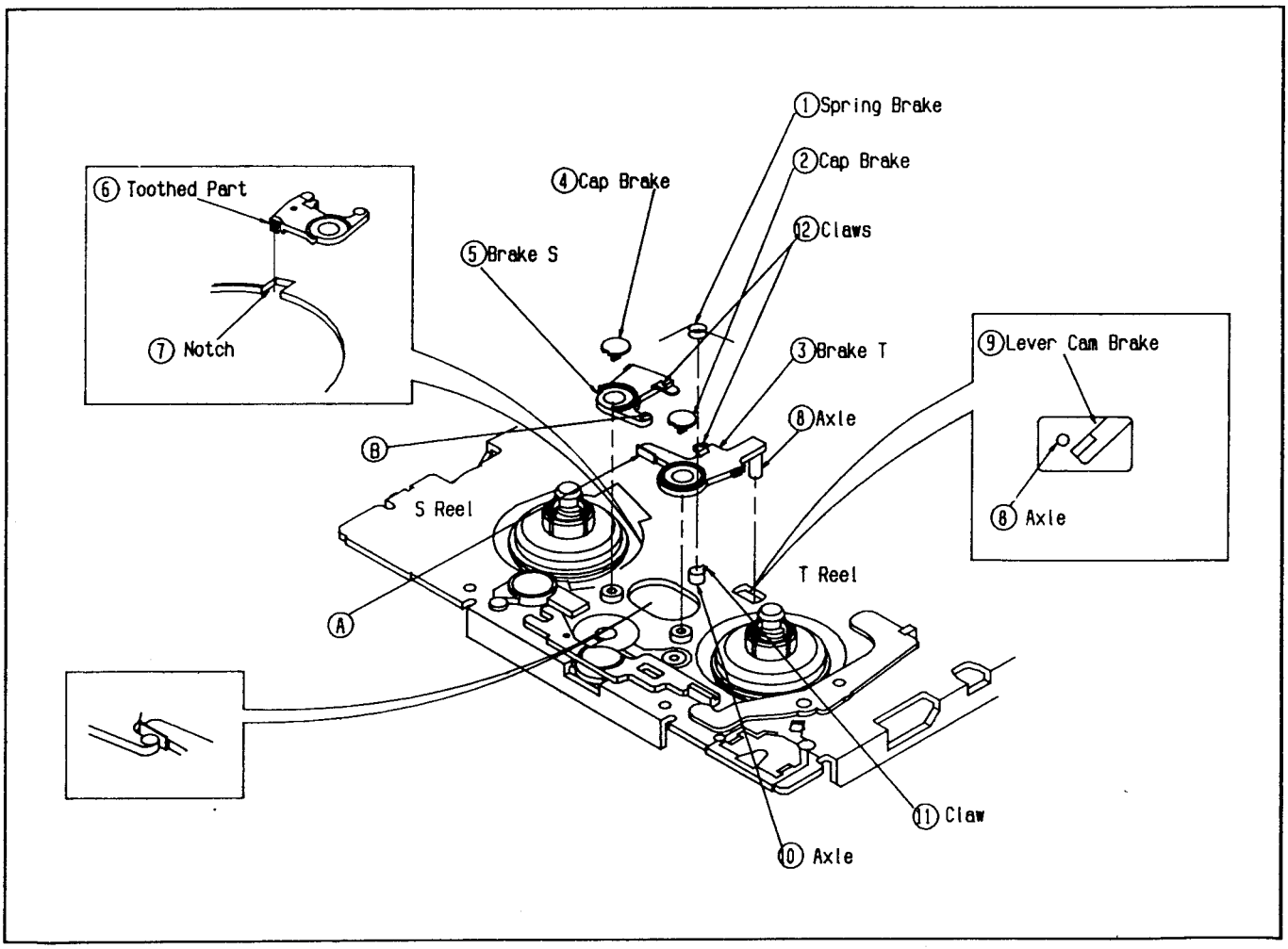


Fig. 17

2-3-4. BRAKE LOADING & LEVER LB

1. Removal (See Fig. 18)

1) Remove the screw ①, then remove the Plate Tension Band ②.
2) Remove the Cap Brake ③, then remove the Brake Loading ④.
3) Remove the Cap Brake ⑤, then remove the Lever LB ⑥.

2. Installation (See Fig. 18)

1) Mount the Lever LB ⑥ matching it to the pin ⑦ of the LB Gear, then secure it with the Cap Brake ⑤.
2) Insert pin ⑧ into the notch ⑨ of the Lever LB ⑥, then mount the Brake Loading ④ while inserting the toothed part ⑩ into the notch ⑪.
3) Insert the Cap Brake ③.
4) Align the hole ⑫ with the dowel ⑬, then mount the Plate Tension Band ② and secure it with the screw ①.

Note : Confirm that claws of Cap Brake ③ and ⑤ are not broken before assembling.

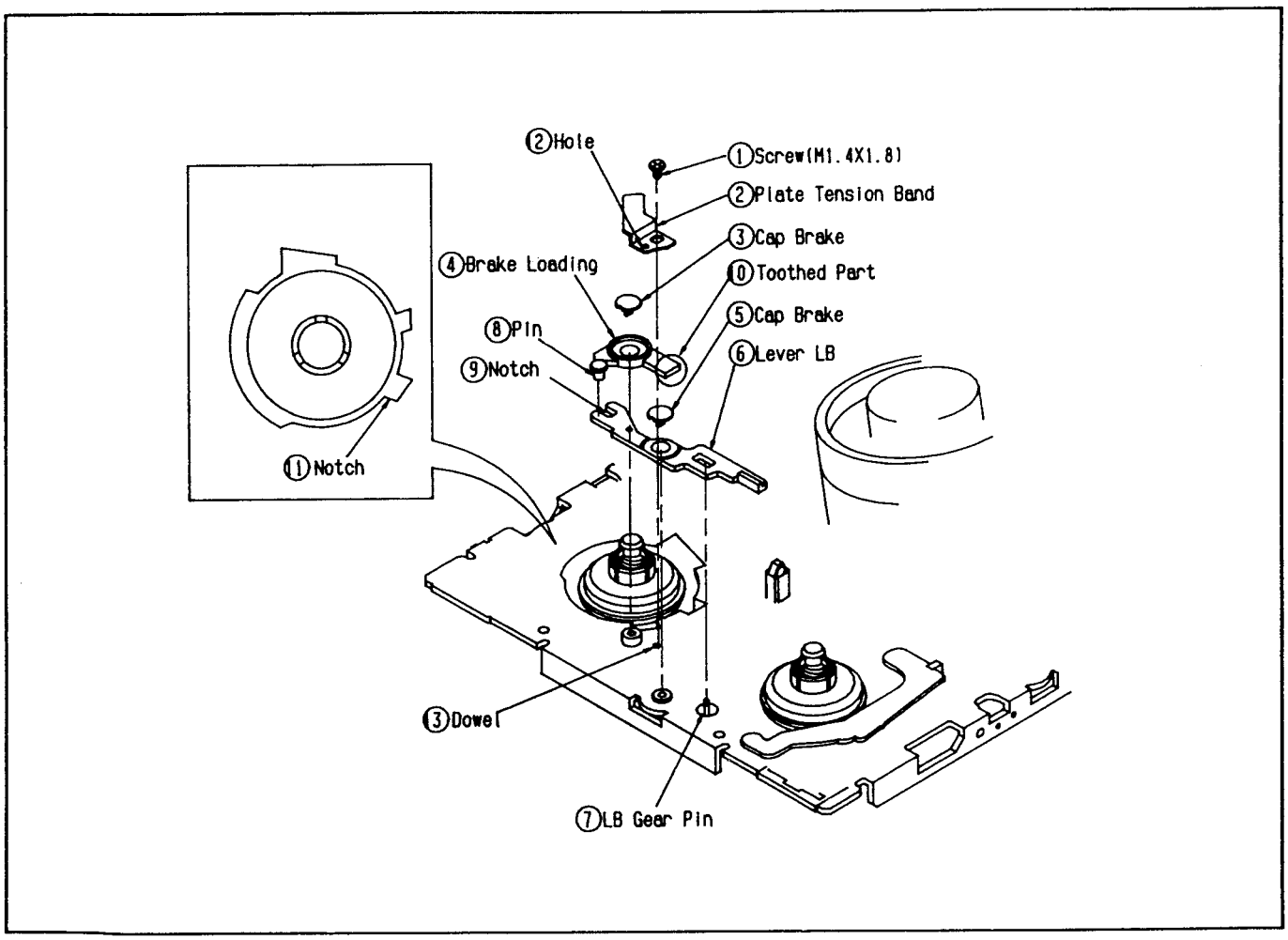


Fig. 18

2-3-5. LEVER BRAKE

1. Removal (See Fig. 19)

1) While pushing the claw ① in the direction of the arrow, remove the Lever Brake ②.

2. Installation (See Fig. 19)

1) Fit the Lever Brake ② to the axle ③, insert protrusions ⓐ, ⓑ, ⓒ, ⓓ into the four holes ④, then secure with the claw ①.

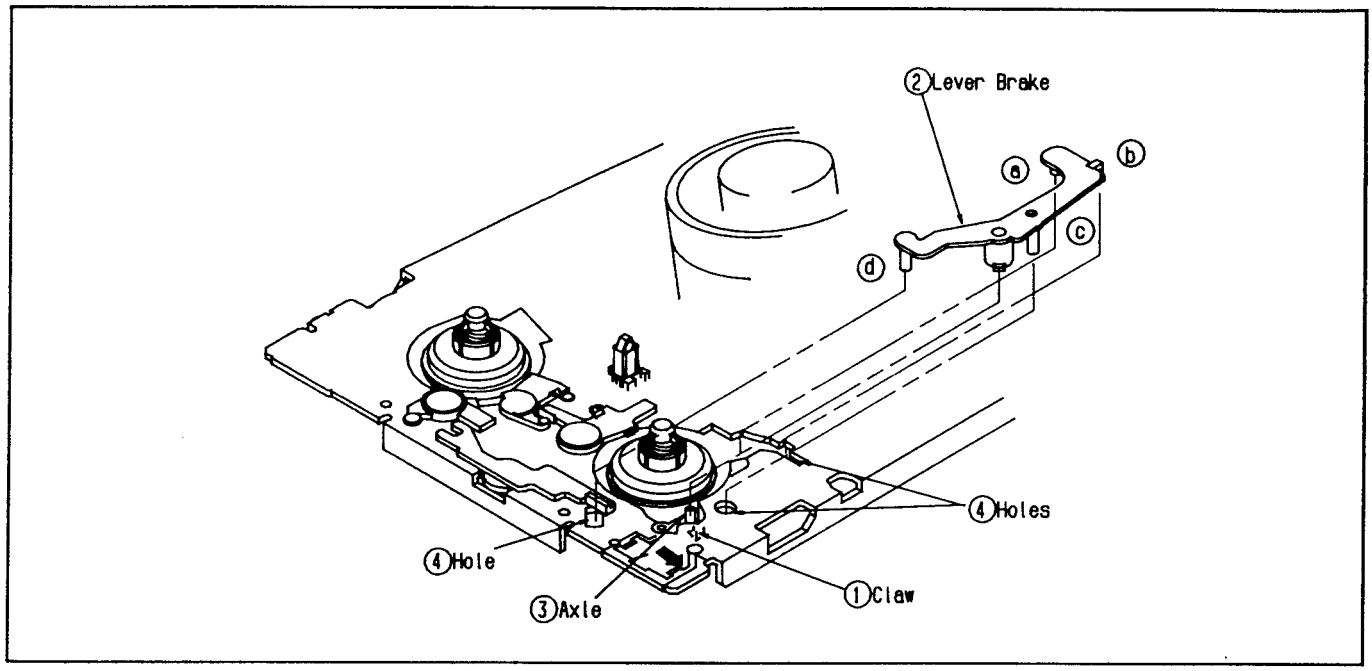


Fig. 19

2-3-6. STOPPER IDLER, ARM STOPPER IDLER

1. Removal (See Fig. 20)

1) Remove the Spring Stopper Idler ①.
2) Release the chassis claw ②, then remove the Arm Stopper Idler ③.
3) Remove the Stopper Idler ④.

2. Installation (See Fig. 20)

1) Mount the Stopper Idler ④ onto the axle ⑤.
2) Mount the Arm Stopper Idler ③ onto axle ⑥, insert pin ⑩ into hole ⑪, then hook the claw ② of the chassis to the hole ⑦.
3) Insert the Spring Stopper Idler ① into the axle ⑤, then hook it to claws ⑧ and ⑨.

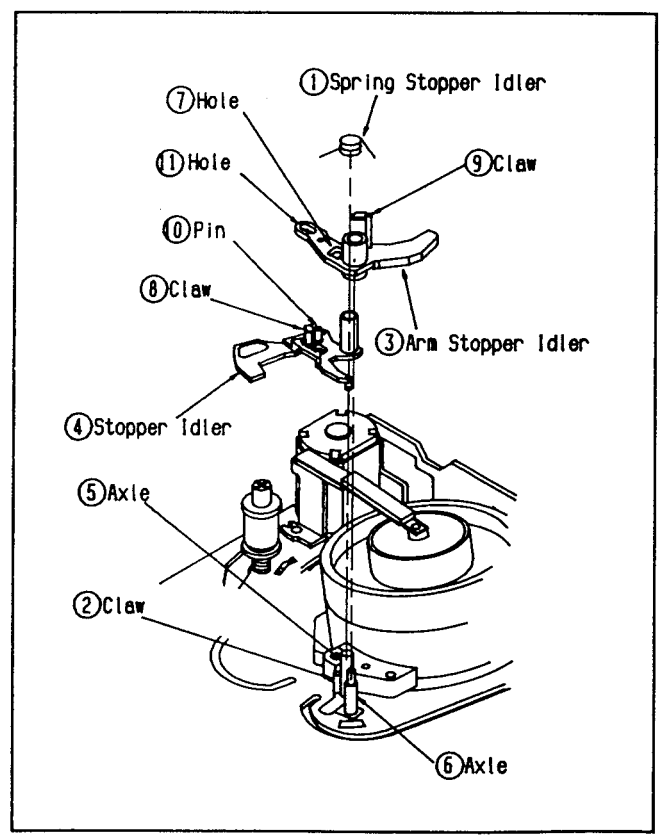


Fig. 20

http://www.ManualsCenter.com

2-3-7. PINCH ASS'Y, TAPE GUIDE ASS'Y

1. Removal (See Fig. 21)

1) Set the IB mode.
2) Remove the Washer Slit ①, then remove the Pinch Ass'y ②.
3) Bend the claw ④ inside hole ③ in the direction of the arrow then remove the Plate T.G ⑤.
4) Remove the Tape Guide Ass'y ⑥.

Note : Mode change
EJECT→ (IA)→ UNLOAD→ (IB)→ STOP→ (IC)→ PLAY

- IA ; An imaginary mode between Eject and Unload stop.
- IB ; An imaginary mode between Unload stop and Stop.
- IC ; An imaginary mode between Stop and Play.

2. Installation (See Fig. 21)

1) Grease the inner surfaces of hole ⑦.
2) Insert the axle ⑧ of the Tape Guide ass'y ⑥ into the hole ⑦.
3) Grease the shaded section ⓐ (See Fig. A).
4) Insert the Plate T.G ⑤ into the hole ③, then secure it with the claw ④.
5) Apply oil to the axle ⑨ (See Fig.B).
6) Fit the Pinch Ass'y ② to the axle ⑨ and insert the bending part of Pinch Lever Ass'y ⑩ into the ⓑ part.
7) Install the Washer Slit ①.

Note :

- When fitting the Pinch Ass'y ② to the axle ⑨, make sure that it does not touch the Tape Guide ⑪ or the Pinch Roller Ass'y ⑫.
- After assembling, be sure to perform tape path adjustment as described in section 3.

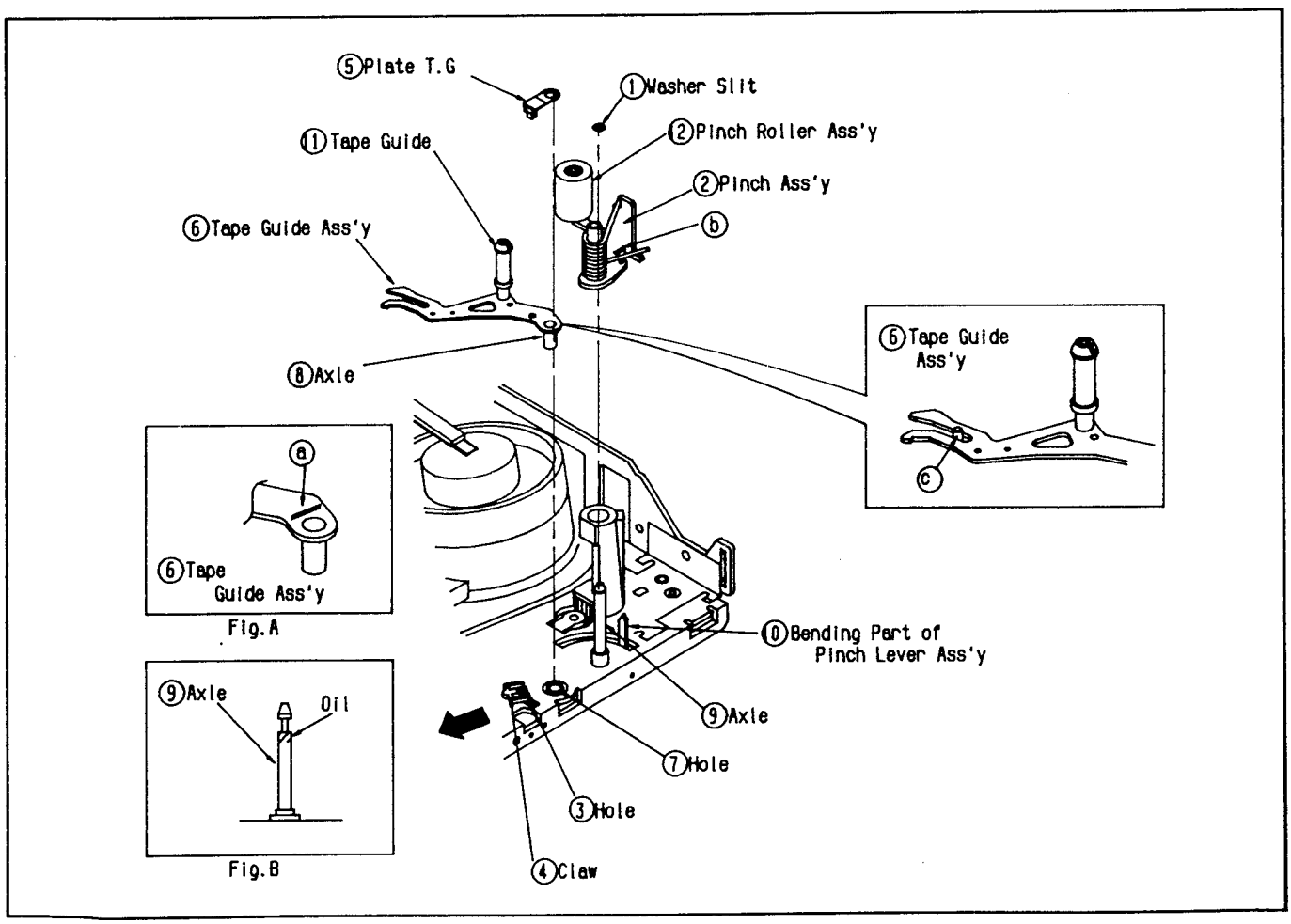


Fig. 21

2-3-8. ROLLER IMPEDANCE

1. Removal (See Fig. 22)

1) Remove the Cap Impedance ①.
2) Remove the Roller Impedance ②, the Sleeve Impedance ③, the Flange Impedance ④ and the Spring Impedance ⑤.

2. Installation (See Fig. 22)

1) Mount the Spring Impedance ⑤, the Flange Impedance ④, Sleeve Impedance ③ and the Roller Impedance ② to the axle.
2) Secure the Cap Impedance ① to the axle by rotating it 4 to 6 turns.

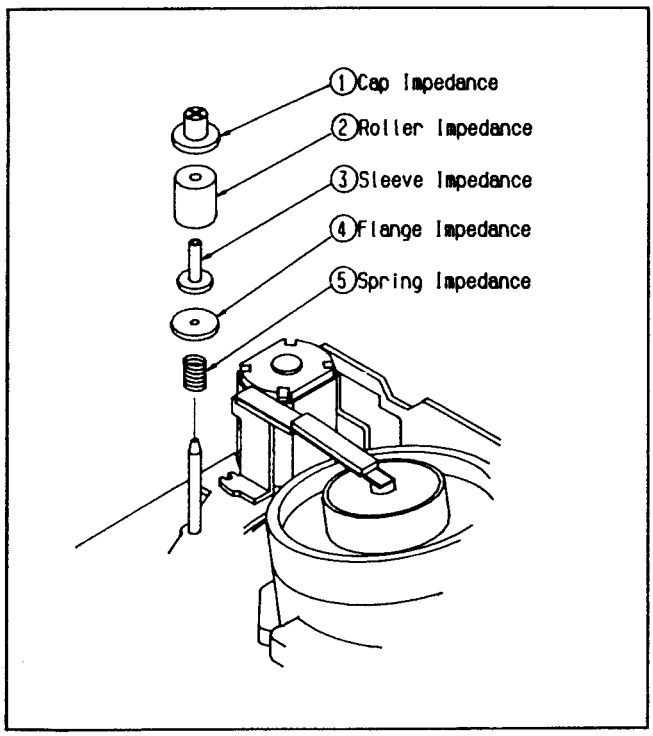


Fig. 22

3. Cap Impedance Height Preset (See Fig. 23)

1) Adjust height from the mechanism chassis upper surface ② to the Cap Impedance ① upper surface to 18.6 mm by turning the Cap Impedance ①.

Note : After adjustment, be sure to perform tape path adjustment as described in section 3.

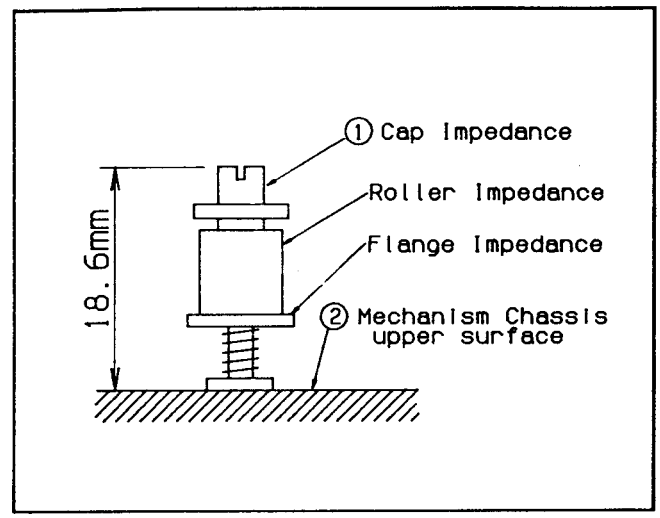


Fig. 23

2-3-9. REEL DISK S ASS'Y & REEL DISK T ASS'Y

1. Removal (See Fig. 24)

1) Remove the Brake S and Brake T as described in section 2-3-3.
2) Remove the Plate Tension Band as described in section 2-3-4.
3) Remove the Holder Band Ass'y as described in section 2-3-10.
4) Remove the Reel Disk S Ass'y ①.
5) Turn the stopper ② approx. 90° in the direction of the arrow Ⓐ.
6) Remove the Lever Brake ③ as described in section 2-3-5.
7) Remove the Reel Disk T Ass'y ④.

2. Installation (See Fig. 24)

1) Apply oil to the axle ⑤ (See Fig. A).
2) Move the Idler Ass'y ⑥ in the direction of the arrow Ⓑ and the Soft Brake Ass'y ⑦ in the direction of the arrow Ⓒ, putting them out of the way.
3) Mount the Reel Disk T Ass'y ④ onto the axle ⑤, then turn the stopper ② in the direction of the arrow Ⓓ as far as it will go.
4) Install the Lever Brake ③ as described in section 2-3-5.
5) Apply oil to the axle ⑧ (See Fig. B).
6) Move the Idler Ass'y ⑥ in the direction of the arrow Ⓔ, the Brake UL ⑨ in the direction of the arrow Ⓕ and the Brake Loading ⑩ in the direction of the arrow Ⓖ, putting them out of the way.
7) Mount the Reel Disk S Ass'y ① onto the axle ⑧.
8) Mount the Holder Band Ass'y as described in section 2-3-10.
9) Mount the Plate Tension Band as described in section 2-3-4.
10) Mount the Brake S and Brake T Assemblies as described in section 2-3-3.

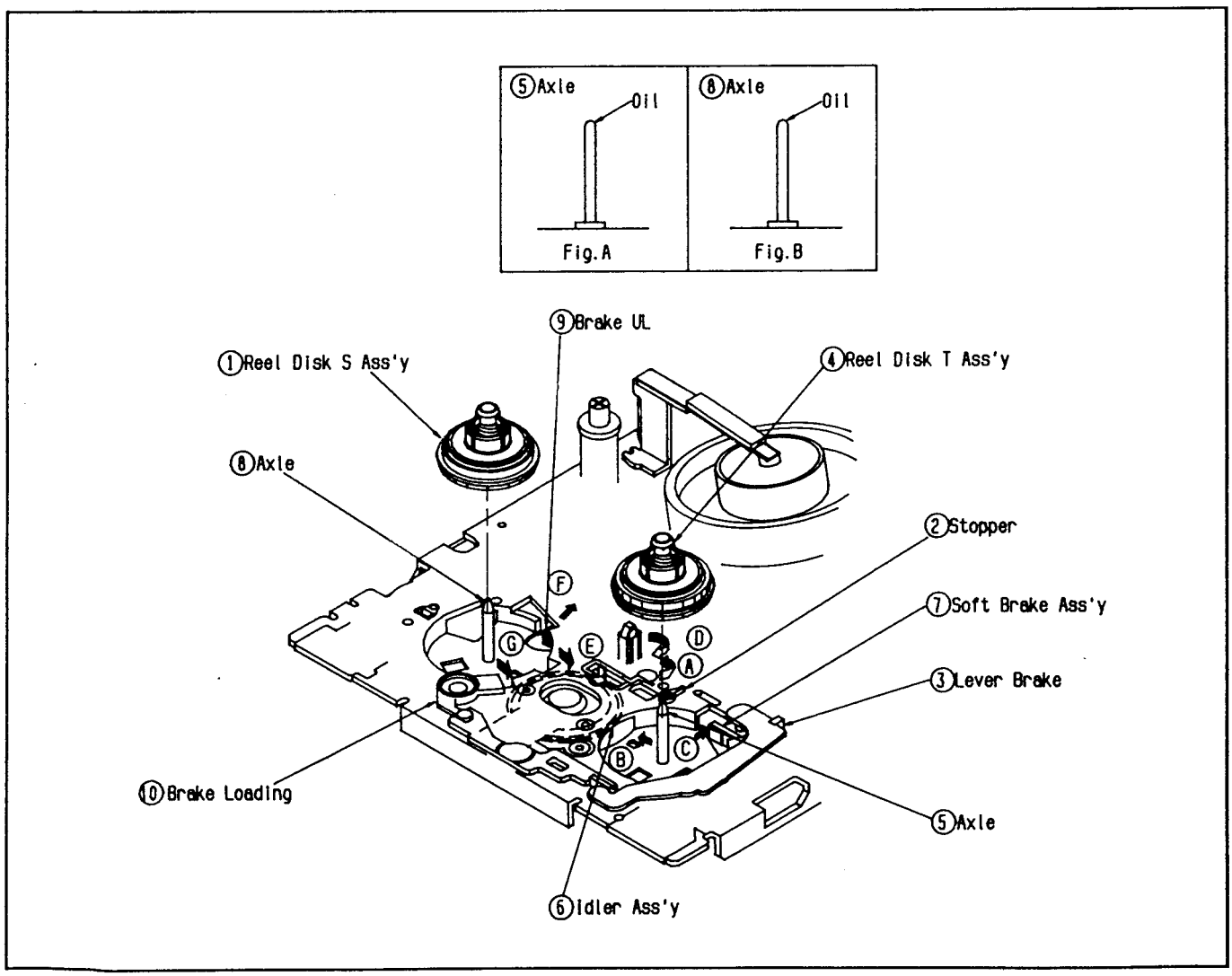


Fig. 24

2-3-10. ARM TENSION ASS'Y & HOLDER BAND ASS'Y

1. Removal (See Fig. 25)

1) Remove the Plate Tension Band as described in section 2-3-4.
2) Remove the screw Tension Arm ①.
3) Remove the Holder Band Ass'y ④ from the axle ③ of Arm Tension Ass'y ②.
4) Remove the Spring Tension ⑤.
5) Remove the Washer Slit ⑥ from the back of the mechanism chassis, then remove the Arm Tension Ass'y ②.
6) Open the claw ⑦, then remove the Adjust Tension Spring ⑧.

> **Note** : When removing the Holder Band Ass'y ④, take care not to twist or bend it, and not to touch the felt surface ⑨.

2. Installation (See Fig. 25)

1) Install the Adjust Tension Spring ⑧ in the position shown in Fig. A, then close the claw ⑦.
2) Apply oil to the hole ⑩.
3) Mount the Arm Tension Ass'y ②, then insert it into the slot ⑪ so that the ⓐ part goes to the arrow ⓐ side of the Mode Lever Ass'y (See Fig. B).
4) While holding the Arm Tension Ass'y ② from the mechanism chassis front, secure it with the Washer Slit ⑥ from the back.
5) Hook the R hook of the Spring Tension ⑤ to the Adjust Tension Spring ⑧ as shown in the figure, then hook the opposite end to the Arm Tension Ass'y ②.
6) Mount the Holder Band Ass'y ④ onto the axle ③ of Arm Tension Ass'y ②, and place it so that the felt surface ⑨ comes against the shaded portion of the Reel S ass'y ⑫.
7) Mount the Holder Band B ⑬ of the Holder Band Ass'y ④ so that it is aligned with dowel ⑭ of the mechanism chassis, then secure it temporarily with the screw ①.
8) Mount the Plate Tension Band as described in section 2-3-4.
9) Adjust tension band PLAY position as described in section 2-3-11.
10) Perform Adjust Tension Spring ⑧ adjustment as described in section 3-2.

> **Note** : When mounting the Holder Band Ass'y ④, do not twist or bend it, and not to touch the felt surface ⑨.

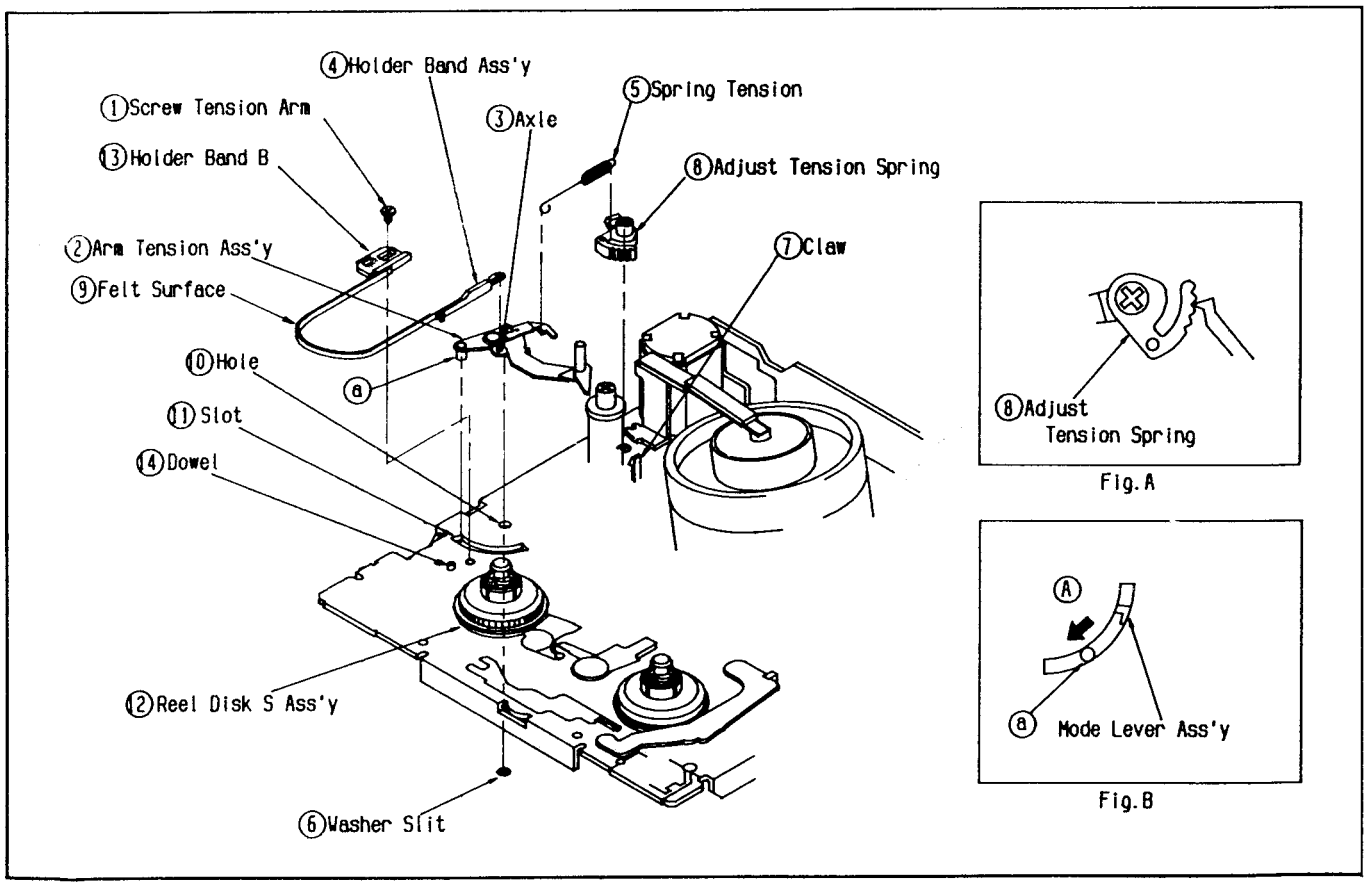


Fig. 25

2-3-11. TENSION BAND PLAY POSITION PRESET
(See Fig. 26)

1) Load a cassette tape and set the PLAY mode.
2) Confirm whether the distance between ⓐ part of the Arm Tension Ass'y ① and the groove ② of the chassis is 1.2 ± 0.2mm. If this distance is not within the specified range, remove the cassette tape and perform the following adjustment.
3) Loosen the fixing screw Tension Arm ④ of the Holder Band Ass'y ③.
4) Slide the Holder Band B ⑤ in the direction of the arrow Ⓐ if the measured distance is over the specified range, and in the direction of the arrow Ⓑ if it is under that range. Then, secure it with the screw ④.
5) Repeat steps 1) and 2) and confirm that the distance is within the specified range.

Note : Use a cassette with the tape advanced halfway.

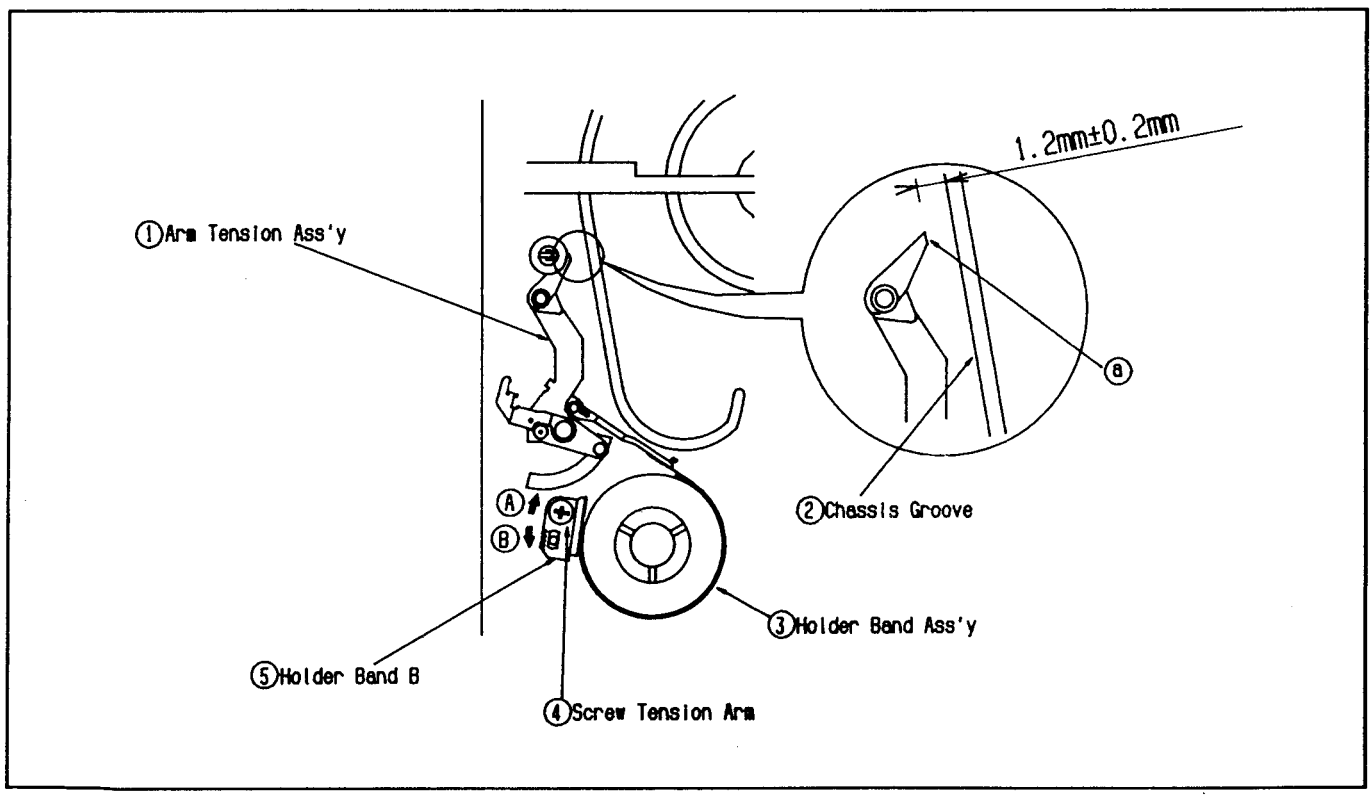


Fig. 26

2-3-12. DRUM ASS'Y & DEW SENSOR ASS'Y

1. Removal (See Fig. 27)

1) Set the EJECT mode.
2) Remove the Guard Guide as described in section 2-3-1.
3) Remove the screw ①, then remove the Earth Brush Ass'y ②.
4) Remove the three screws ③④, then remove the Drum Ass'y ⑤ from the mechanism chassis.
5) Remove the screw ⑬, then remove the Dew Sensor Ass'y ⑫.

2. Installation (See Fig. 27)

Note :
- When removing the Drum Ass'y ⑤ from the mechanism chassis, take care not to cut the flexible board ⑥⑦.
- Do not touch the head tip ⑧.

1) Insert part ⓐ of the Dew Sensor Ass'y ⑫ into the hole ⑭ of the mechanism chassis, then secure it with the screw ⑬.
2) Insert the flexible board ⑥⑦ into the hole ⑨ of the mechanism chassis, align the Drum Ass'y ⑤ with the two hole ⑩ and secure it with the three screws ③④.
3) Align the Earth Brush Ass'y ② with the two dowels ⑪ of the mechanism chassis and secure it with the screw ①.
4) Mount the Guard Guide as described in section 2-3-1.

Note :
- Be careful not to cut the flexible board ⑥⑦.
- Take care not to touch the head tip ⑧.
- After assembling, be sure to perform Tape Path Adjustment following instructions in section 3.

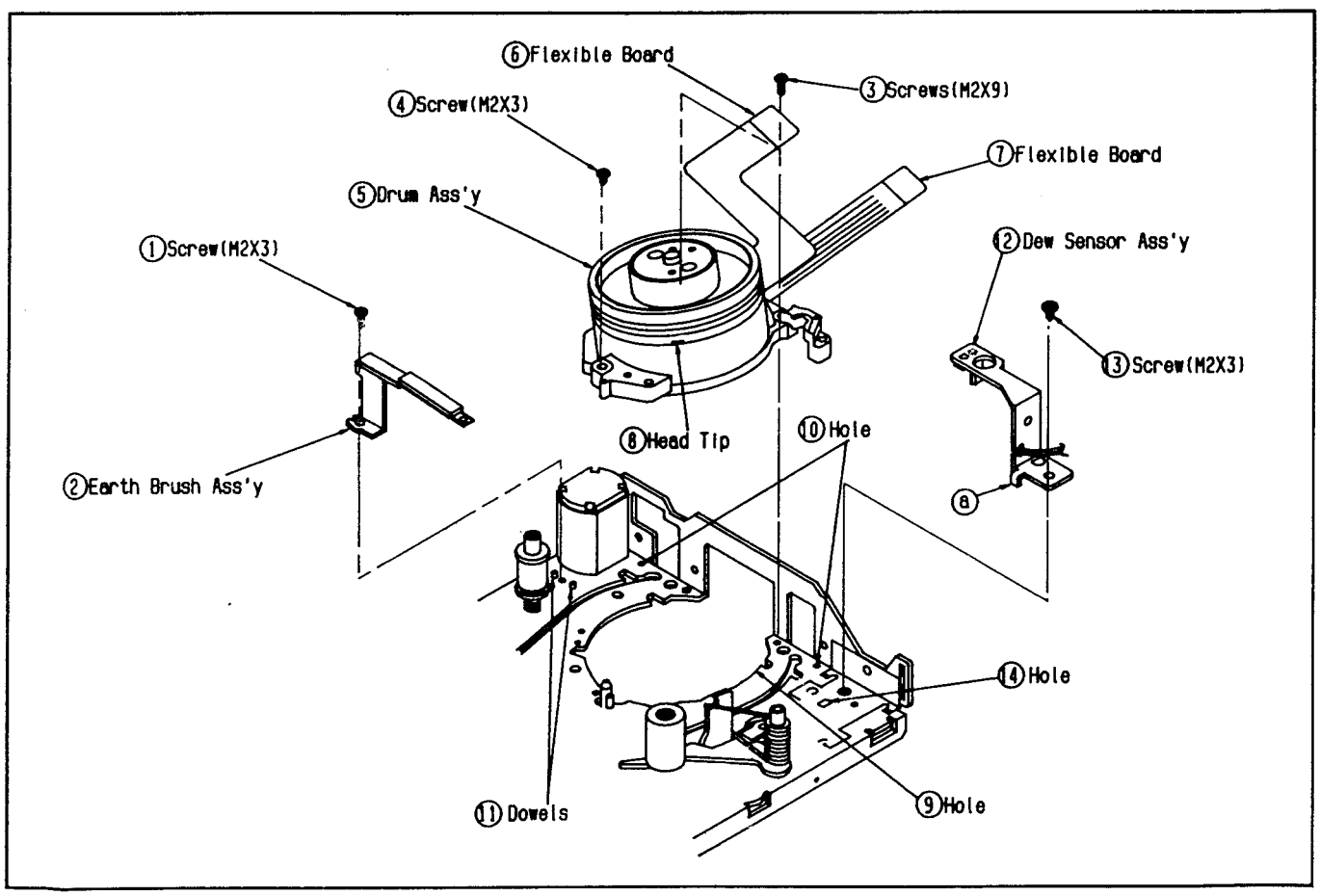


Fig. 27

2-3-13. LEVER EJECT, MODE LEVER ASS'Y & PINCH LEVER ASS'Y

1. Removal (See Fig. 28)

1) Remove the Capstan Motor as described in section 2-3-2.
2) Set the STOP mode.
3) Release the claw ①, then remove the Lever Eject ②.
4) Remove the Washer Slit ③, then remove the Mode Lever Ass'y ④.
5) Remove the Spring Pinch Lever ⑤.
6) Remove the Washer Slit ⑥, then remove the Pinch Lever ass'y ⑦.

2. Installation (See Fig. 28)

Note : Mechanism must be in the unloaded position when installing these parts.

1) Grease the axle ⑧. (See Fig. A)
2) Assemble by inserting ⓐ part of the Pinch Lever Ass'y ⑦ into the slot ⑨, then insert the pin ⑩ into the Loading Lever Ass'y Notch ⑪.
3) Secure with the Washer Slit ⑥.
4) Mount the Spring Pinch Lever ⑤ by catching its ⓑ end between the chassis side and its ⓒ end to the claw ⑫.
5) Apply oil to the axle ⑬ (See Fig. B).
6) Align the groove ⑭ of the Mode Lever Ass'y ④ with the Mode Switch Ass'y protrusion ⑮, mount it on the axle ⑬, then insert pin 16 into the Cam S ass'y 17 outer groove.
7) Secure with the Washer Slit ③.
8) Mount the Lever Eject ② and close the claw ①.
9) Mount the Capstan Motor as described in section 2-3-2.

Note : When mounting the Mode Lever Ass'y ④ onto the axle ⑬ with the Arm Tension Ass'y installed, set the pin ⑱ to the arrow Ⓐ side of the Mode Lever Ass'y ④.

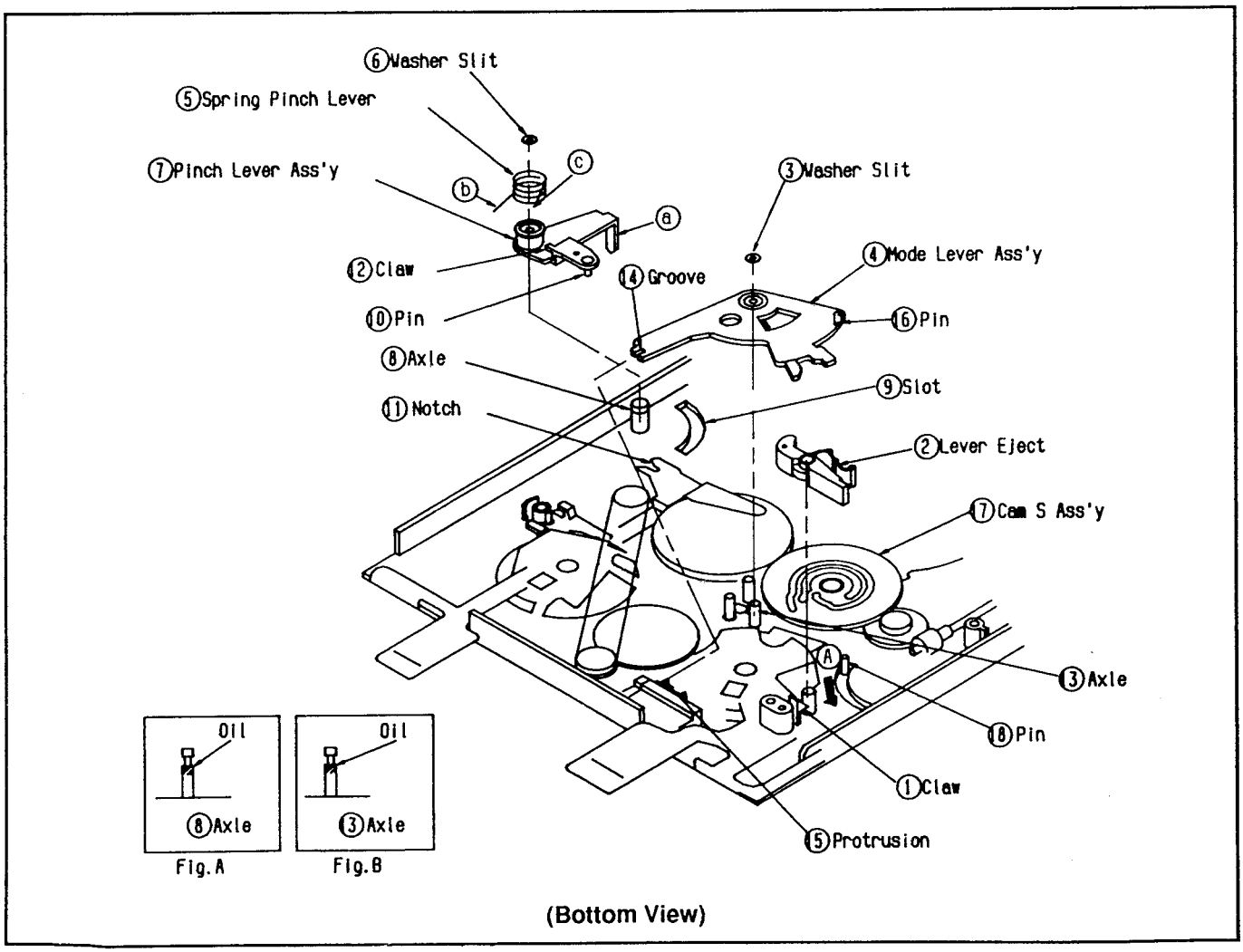


Fig. 28

2-3-14. BELT TIMING IDLER, GEAR DRIVE IDLER ASS'Y, LOADING LEVER ASS'Y, BELT TIMING CAP., CAPSTAN GEAR ASS'Y

1. Removal (See Fig. 29)

1) Remove the Capstan Motor as described in section 2-3-2.
2) Remove the Pinch Lever Ass'y as described in section 2-3-13.
3) Set the STOP mode.
4) Remove the Washer Slit ①, then remove the Gear Drive Idler Ass'y ② from the axle ④ with the Belt Timing Idler ③ attached.
5) Remove the Belt Timing Idler ③ from the Relay Pulley Ass'y ⑤.
6) Remove the Washer Slit ⑥, then remove the Loading Lever Ass'y ⑦ from the axle ⑩.
7) Remove the Capstan Gear Ass'y ⑨ from the axle ⑭ with the Belt Timing Cap. ⑧ attached.
8) Remove the Belt Timing Cap. ⑧ from the Relay Pulley Ass'y ⑤.

Note : When removing the Capstan Gear Ass'y ⑨, Do not touch the flange section ⓑ.

2. Installation (See Fig. 29)

Note : Mechanism must be in the unloaded position when installing these parts.

1) Apply oil to the axle ⑭ (See Fig. F).
2) Hook one end of the Belt Timing Cap. ⑧ onto the Capstan Gear Ass'y ⑨ (See Fig. D) and the other end onto gear ⓓ of the Relay Pulley Ass'y ⑤. (See Fig. E)
3) Mount the Capstan Gear Ass'y ⑨ with the Belt Timing Cap. ⑧ attached to the axle ⑭.
4) Apply oil to the axle ⑩ (See Fig. A).
5) Fit the Loading Lever Ass'y ⑦ to the axle ⑩, and place the pin ⑪ into the groove of the Cam T ass'y ⑫.
6) Install the Washer Slit ⑥.
7) Place the Belt Timing Idler ③ around the gears ⓐ of the Gear Drive Idler Ass'y ② indicated in Fig. B, and its opposite side around the gear ⓒ of the Relay Pulley Ass'y ⑤. (See Fig. E)
8) Mount the Gear Drive Idler Ass'y ② onto the axle ④ with the Belt Timing Idler ③ attached, and engage it with the gear of the Idler Ass'y ⑮.
9) Install the Washer Slit ①.
10) Grease parts of the Loading Lever Ass'y ⑦ indicated in Fig. C.
11) Mount the Pinch Lever Ass'y as described in section 2-3-13.
12) Mount the Capstan Motor as described in section 2-3-2.

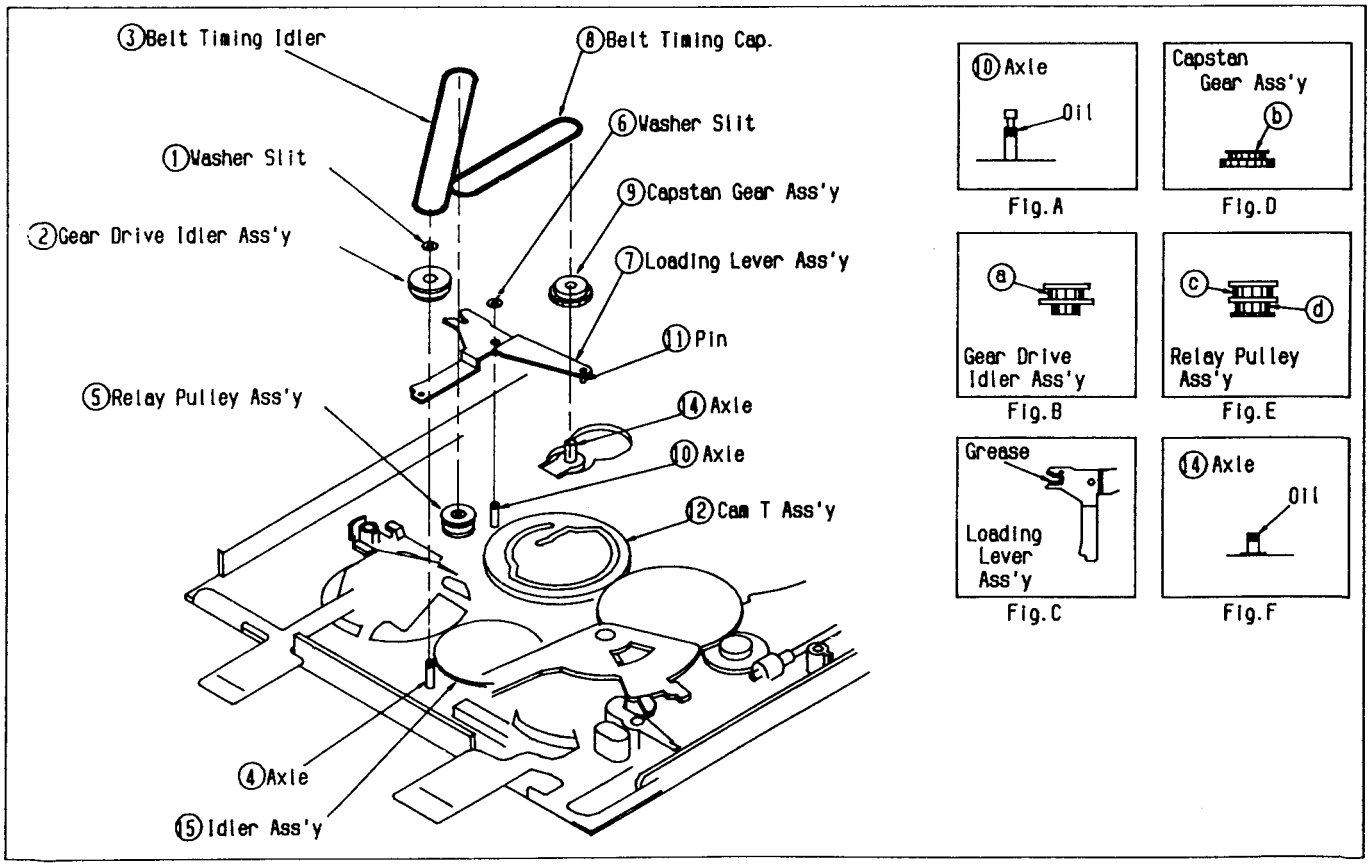


Fig. 29

http://www.ManualsCenter.com

2-3-15. RELAY PULLEY ASS'Y, SOFT BRAKE ASS'Y, LB GEAR ASS'Y, IDLER ASS'Y

1. Removal (See Fig. 30)

1) Remove the Capstan Motor as described in section 2-3-2.
2) Remove the Mode Lever Ass'y as described in section 2-3-13.
3) Remove the Belt Timing Idler, the Gear Drive Idler ass'y, the Loading Lever Ass'y, the Belt Timing Cap and the Capstan Gear Ass'y as described in section 2-3-14.
4) Set the STOP mode.
5) Remove the Washer Slit ①, then remove the Relay Pulley Ass'y ②.
6) Release the claw ③, then remove the Soft Brake Ass'y ④.
7) Remove the Spring LB ⑤.
8) Remove the Washer Slit ⑥, then remove the LB Gear Ass'y ⑦.
9) Remove the Idler Ass'y ⑧.

Note : When removing the Relay Pulley Ass'y ②, Do not touch the flange section ⓐ (See Fig. C).

2. Installation (See Fig. 30)

1) Apply oil to the axle ⑨ (See Fig. A).
2) Mount the Idler Ass'y ⑧ onto the axle ⑨, keeping it in horizontal position.
3) Apply oil to the axle ⑩ (See Fig. B).
4) Mount the LB Gear Ass'y ⑦ onto the axle ⑩ and secure it with the Washer Slit ⑥.
5) Install the Spring LB ⑤ into the axle ⑪, then hook it to the mechanism chassis notch ⑫ and to the tab ⑬.
6) Mount the Soft Brake Ass'y ④ and close the claw ③.
7) Apply oil to the axle ⑭ (See Fig. D).
8) Mount the Relay Pulley Ass'y ② onto the axle ⑭, then secure it with the Washer Slit ①.
9) Mount the Belt Timing Idler, the Gear Drive Idler Ass'y, the Loading Lever Ass'y, the Belt Timming Cap and the Capstan Gear Ass'y as described in section 2-3-14.
10) Mount the Mode Lever Ass'y as described in section 2-3-13.
11) Mount the Capstan Motor as described in section 2-3-2.

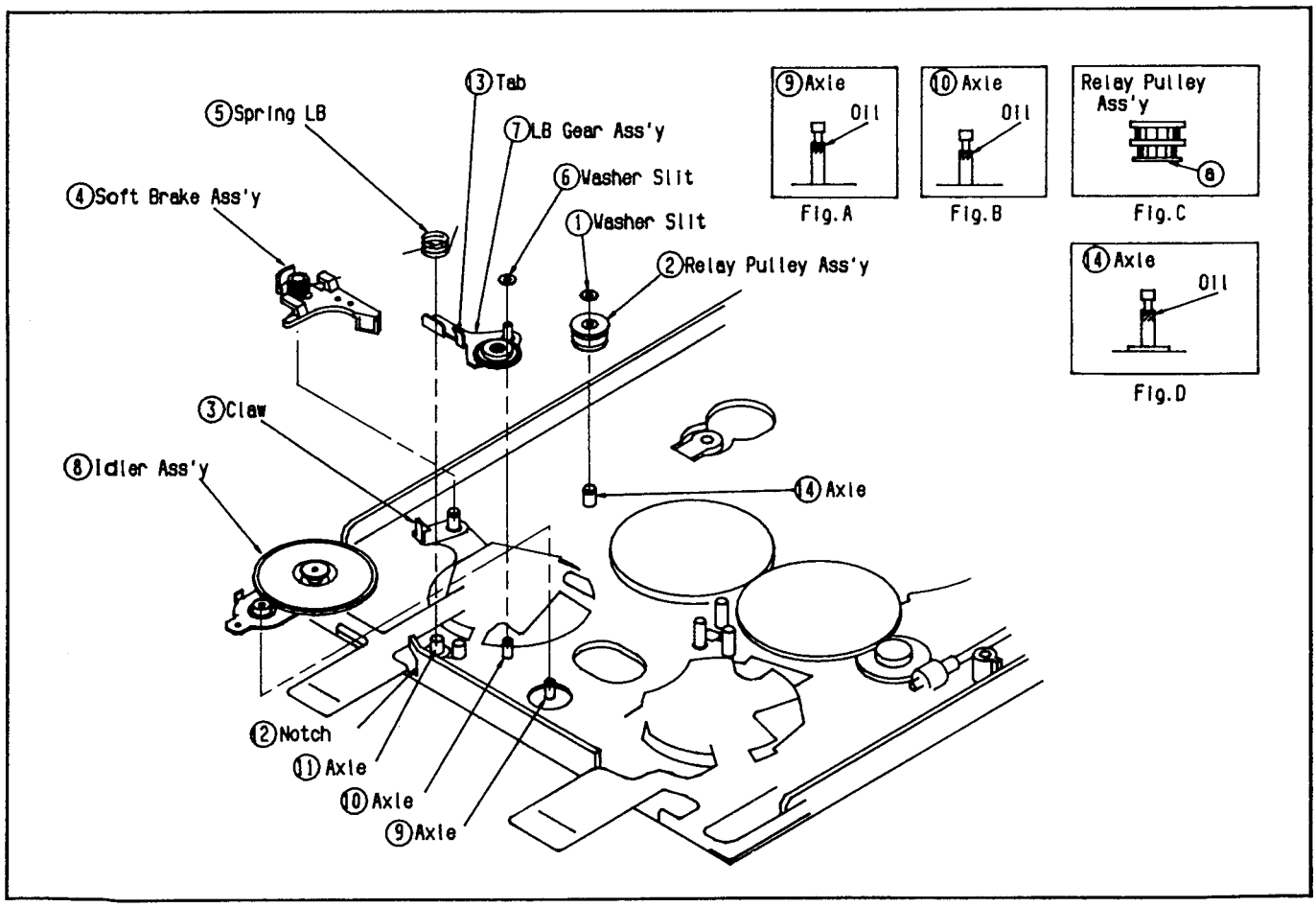


Fig. 30

2-3-16. GEAR UL.B, BRAKE UL, ARM UL.B, PLATE SPRING BRAKE

1. Removal (See Fig. 31)

1) Remove the Mode Lever Ass'y as described in section 2-3-13.
2) Remove the Washer Slit ①, then remove the Gear UL.B ②.
3) Remove the Arm UL.B ③, the Washer Plain ④ and the Plate Spring Brake ⑤.
4) Remove the Brake UL ⑥.

2. Installation (See Fig. 31)

1) Mount the Brake UL ⑥.
2) Apply oil to the axle ⑦ (See Fig. A).
3) Mount the Plate Spring Brake ⑤ to the axle ⑦ as shown in Fig. B, then install the Washer Plain ④.
4) Mount the Arm UL.B ③ to the axle ⑦ so that the protrusion ⑧ comes into the groove ⑨ of the Brake UL ⑥.
5) Mount the Gear UL.B ② to the axle ⑦ and engage it with the gear of the Cam S Ass'y ⑩.
6) Install the Washer Slit ①.
7) Mount the Mode Lever ass'y as described in section 2-3-13.

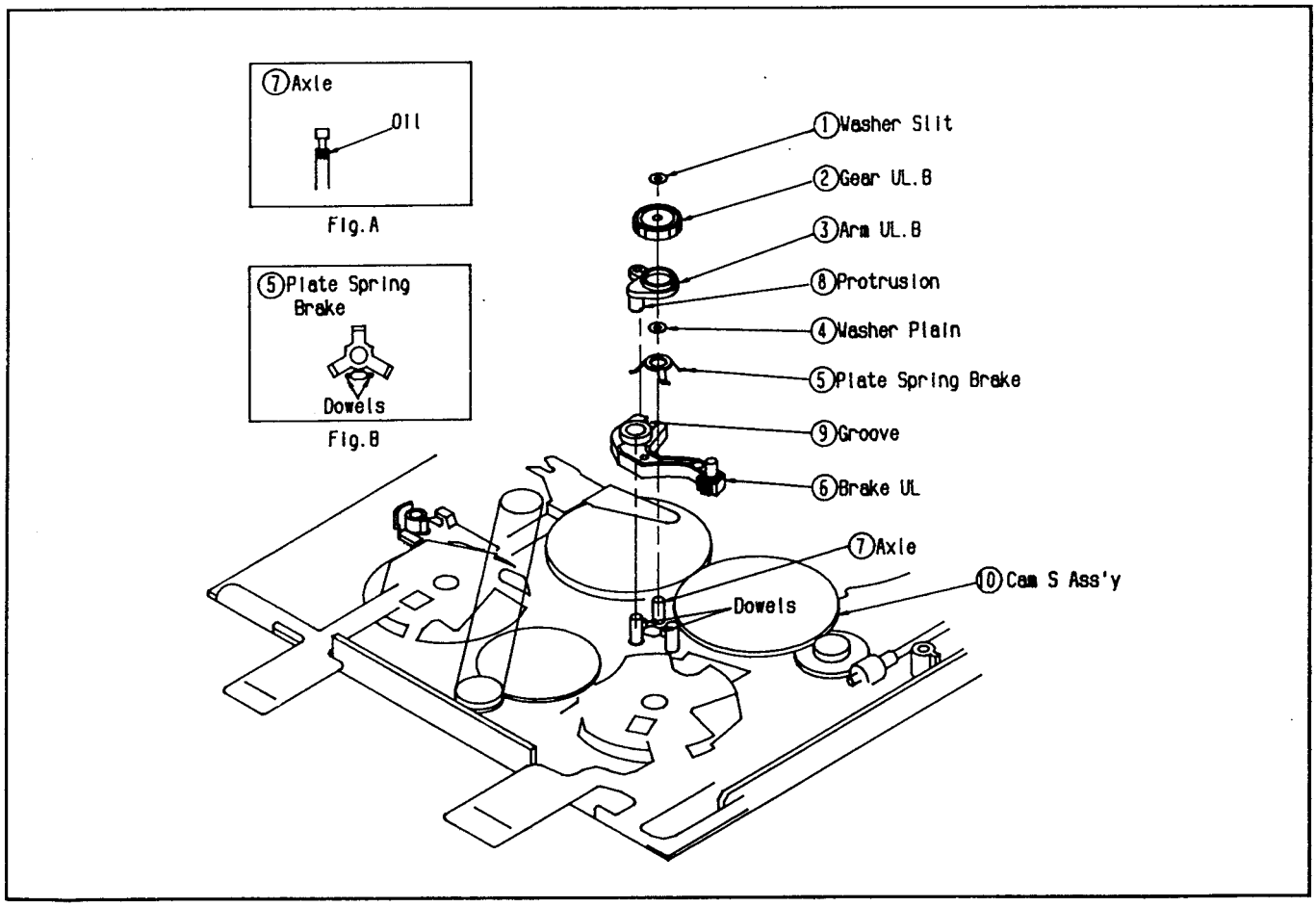


Fig. 31

2-3-17. POLE BASE T ASS'Y, CAM T ASS'Y

1. Removal (See Fig. 32)

1) Remove the Capstan Motor as described in section 2-3-2.
2) Remove the Drum Ass'y as described in section 2-3-12.
3) Remove the Mode Lever Ass'y as described in section 2-3-13.
4) Remove the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
5) Set the STOP mode.
6) Remove the screw ①, then remove the Plate Pole Base ② and the Pole Base T Ass'y ③.
7) Remove the two screws ④, then remove the Support T ⑤.
8) Remove the Washer Slit ⑥, then remove the Cam T Ass'y ⑦.

2. Installation (See Fig. 32)

1) Grease the points of the mechanism chassis shown in Fig. A.
2) Apply oil to the axle ⑧ (See Fig. F).
3) Grease pin ⑨, axle ⑩ and dowel ⑭ of the Pole Base T Ass'y ③ (See Fig. D).
4) Mount pole base ③ by aligning pin ⑨ and the axle ⑩ with the slot ⑪ of the mechanism chassis.
5) Move the Lever Cam Brake ⑫ in the direction of the arrow Ⓐ to put it out of the way.
6) Mount the Cam T Ass'y ⑦ to the axle ⑧, and engage it with the Cam S Ass'y ⑬ as shown in Fig. B.
7) Align the ⓐ part with the ⓑ part, and the hole ⑭ with the pin ⑨ of the Pole Base T Ass'y ③.
8) Install the Washer Slit ⑥.
9) Mount by aligning the Plate Pole Base ② with the axle ⑩ of the Pole Base T Ass'y ③ and pin ⑨, then secure with the screw ①.
10) Mount the Support T ⑤ aligning it with the dowel ⑮, then tighten the two screws ④ in the indicated order.
11) Grease the points indicated in Figs. C and E.
12) Mount the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
13) Mount the Mode Lever Ass'y as described in section 2-3-13.
14) Mount the Drum Ass'y as described in section 2-3-12.
15) Mount the Capstan Motor as described in section 2-3-2.

Note :

- Screw ① should be tightened with a tightening torque of approx. 500g.cm.If tightened too much, the Pole Base T Ass'y ③ and the Plate Pole Base ② will be deformed. (See Fig. G)
- After installing, be sure to perform tape path adjustment as described in section 3.

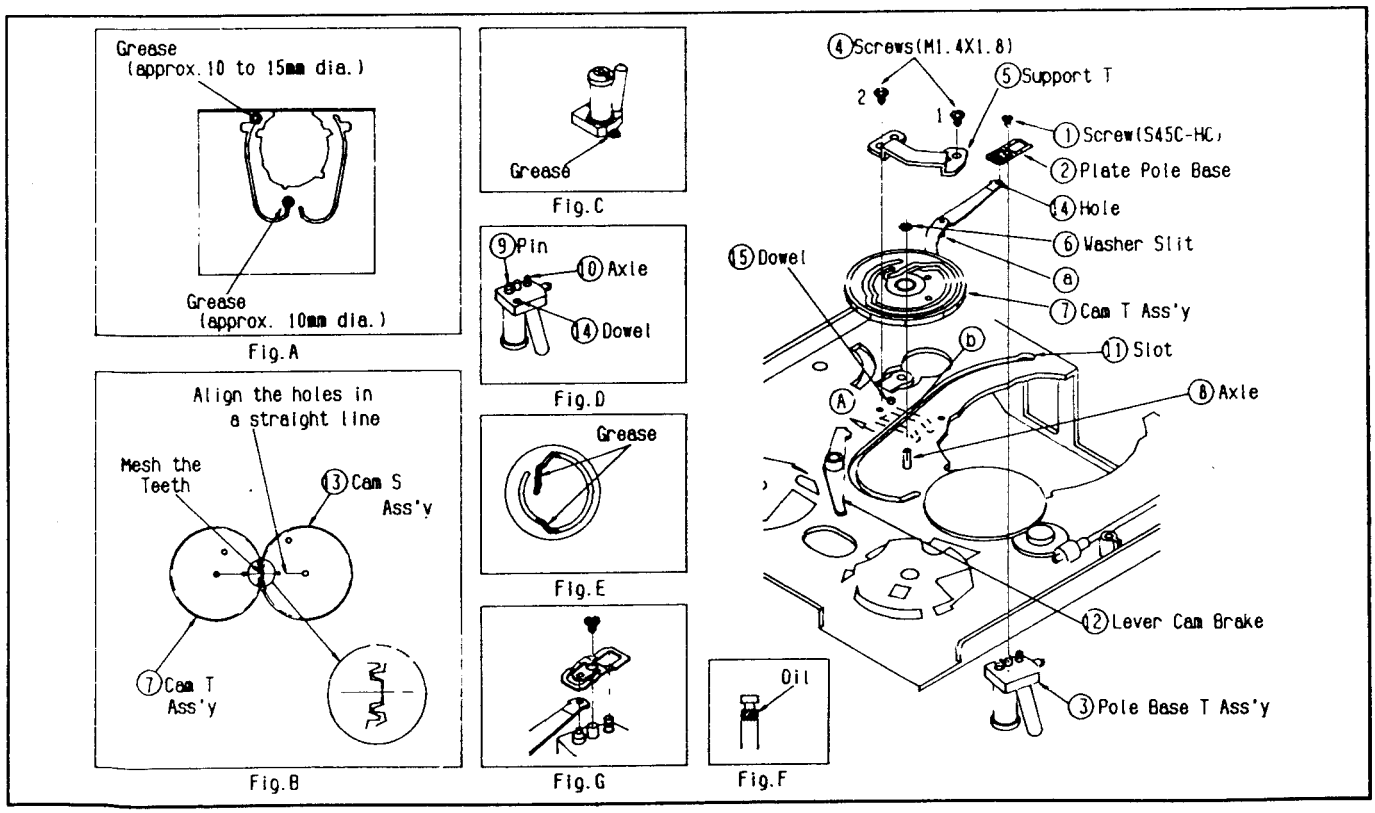


Fig. 32

2-3-18. POLE BASE S ASS'Y & CAM S ASS'Y

1. Removal (See Fig. 33)

1) Remove the Capstan motor as described in section 2-3-2.
2) Remove the Drum Ass'y as described in section 2-3-12.
3) Remove the Mode Lever Ass'y and the Pinch Lever Ass'y as described in section 2-3-13.
4) Remove the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
5) Remove the Pole Base T Ass'y and the Cam T Ass'y as described in section 2-3-17.
6) Remove the two screws ④, then remove the Support S Ass'y ⑤.
7) Remove the screw ①, then remove the Plate Pole Base ② and the Pole Base S Ass'y ③.
8) Remove the Washer Slit ⑥, then remove the Cam S Ass'y ⑦.

2. Installation (See Fig. 33)

1) Grease the points of the mechanism chassis shown in Fig. A.
2) Apply oil to the axle ⑧ (See Fig. E).
3) Grease pin ⑨, axle ⑩ and dowel ⑯ of the Pole Base S Ass'y ③ (See Fig. B).
4) Mount pole base ③ by aligning pin ⑨ and the axle ⑩ with the slot ⑪ of the mechanism chassis.
5) Fit the Cam S Ass'y ⑦ to the axle ⑧, and mount so that the gear engages with the Gear Drive Cam ⑫ and the Gear UL.B⑬.
6) Align the ⓐ part with slot ⑪, and the hole ⑭ with the pin ⑨ of the Pole Base S Ass'y ③.
7) Install the Washer Slit ⑥.
8) Mount by aligning the Plate Pole Base ② with the axle ⑩ and pin ⑨ of the Pole Base S Ass'y ③, then secure with the screw ①.
9) Mount the Support S Ass'y ⑤ aligning it with the dowel ⑮, then tighten the two screws ④ in the indicated order.
10) Grease points indicated in Figs. C and D.
11) Mount the Pole Base T Ass'y and the Cam T Ass'y as described in section 2-3-17.
12) Mount the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
13) Mount the Mode Lever Ass'y and the Pinch Lever Ass'y as described in section 2-3-13.
14) Mount the Drum Ass'y as described in section 2-3-12.
15) Mount the Capstan Motor as described in section 2-3-2.

Note :

- Screw ① should be tightened with a tightening torque of approx. 500g.cm. If tightened too much, the Pole Base S Ass'y ③ and the Plate Pole Base ② will be deformed.
- After installing, be sure to perform tape path adjustment as described in section 3.

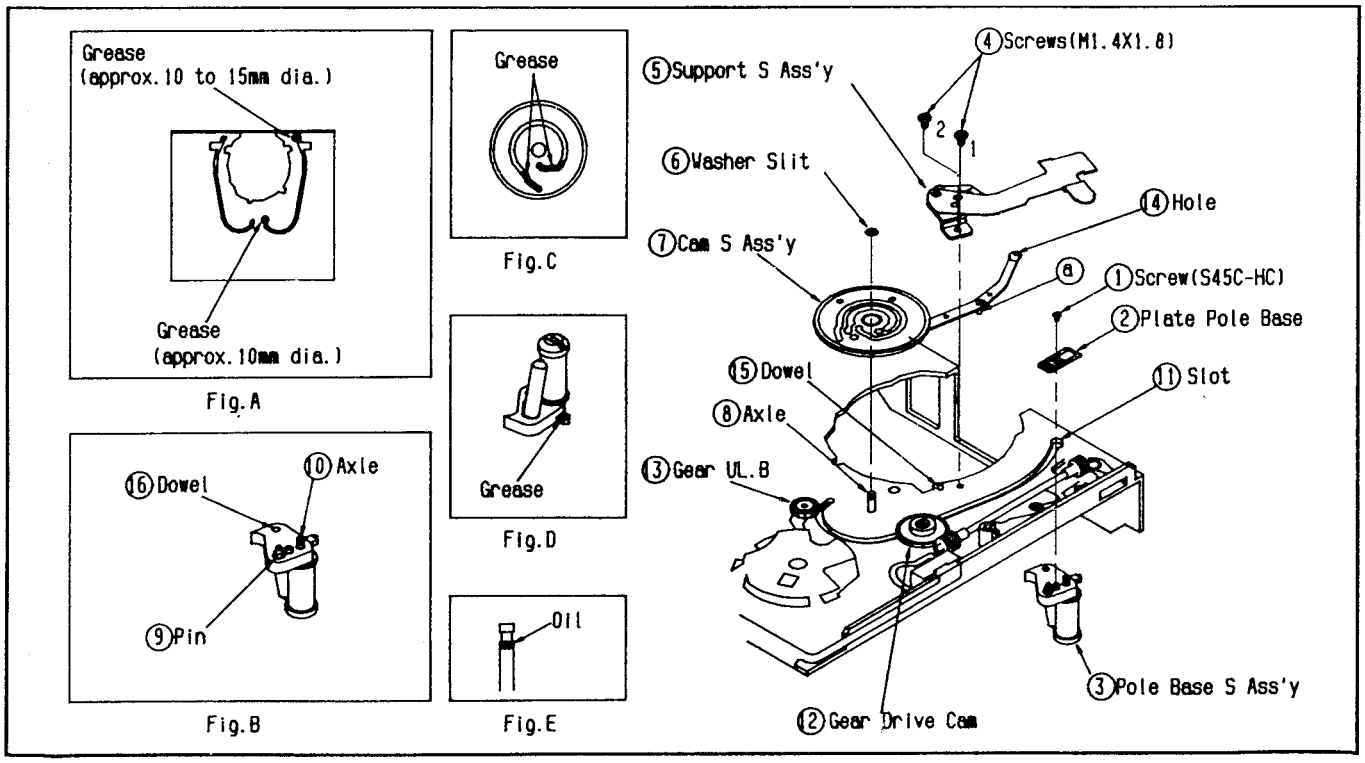


Fig. 33

2-3-19. LOADING MOTOR ASS'Y, LEVER CAM BRAKE, GEAR DRIVE CAM, WORM ASS'Y

1. Removal (See Fig. 34)

1) Remove the Capstan motor as described in section 2-3-2.
2) Remove the Mode Lever Ass'y and the Pinch Lever Ass'y as described in section 2-3-13.
3) Remove the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
4) Remove the Cam T Ass'y as described in section 2-3-17.
5) Remove the Cam S Ass'y as described in section 2-3-18.
6) Remove the two screws ①, then remove the Loading Motor Ass'y ②.
7) Remove the Lever Cam Brake ③.
8) Remove the Washer Slit ④, then remove the Gear Drive Cam ⑤.
9) Remove the Worm Ass'y ⑥ from the six claws ⑦.

2. Installation (See Fig. 34)

1) Mount the Worm Ass'y ⑥, matching it to the six claws ⑦.
2) Grease the shaded parts of the Worm Ass'y ⑥ (five places) (See Fig. A).
3) Apply oil to the axle ⑧ (See Fig. B).
4) Fit the Gear Drive Cam ⑤ to the axle ⑧ and engage it with the gear of the Worm Ass'y ⑥.
5) Install the washer slit ④.
6) Mount the Lever Cam Brake ③.
7) Grease the whole perimeter on the gear of the Loading Motor Ass'y ②.
8) Align the Loading Motor Ass'y ② with the mechanism chassis and secure it with the two screws ②.
9) Mount the Cam S Ass'y as described in section 2-3-18.
10) Mount the Cam T Ass'y as described in section 2-3-17.
11) Mount the Belt Timing Idler, the Gear Drive Idler Ass'y and the Loading Lever Ass'y as described in section 2-3-14.
12) Mount the Mode Lever Ass'y and the Pinch Lever Ass'y as described in section 2-3-13.
13) Mount the Capstan Motor as described in section 2-3-2.

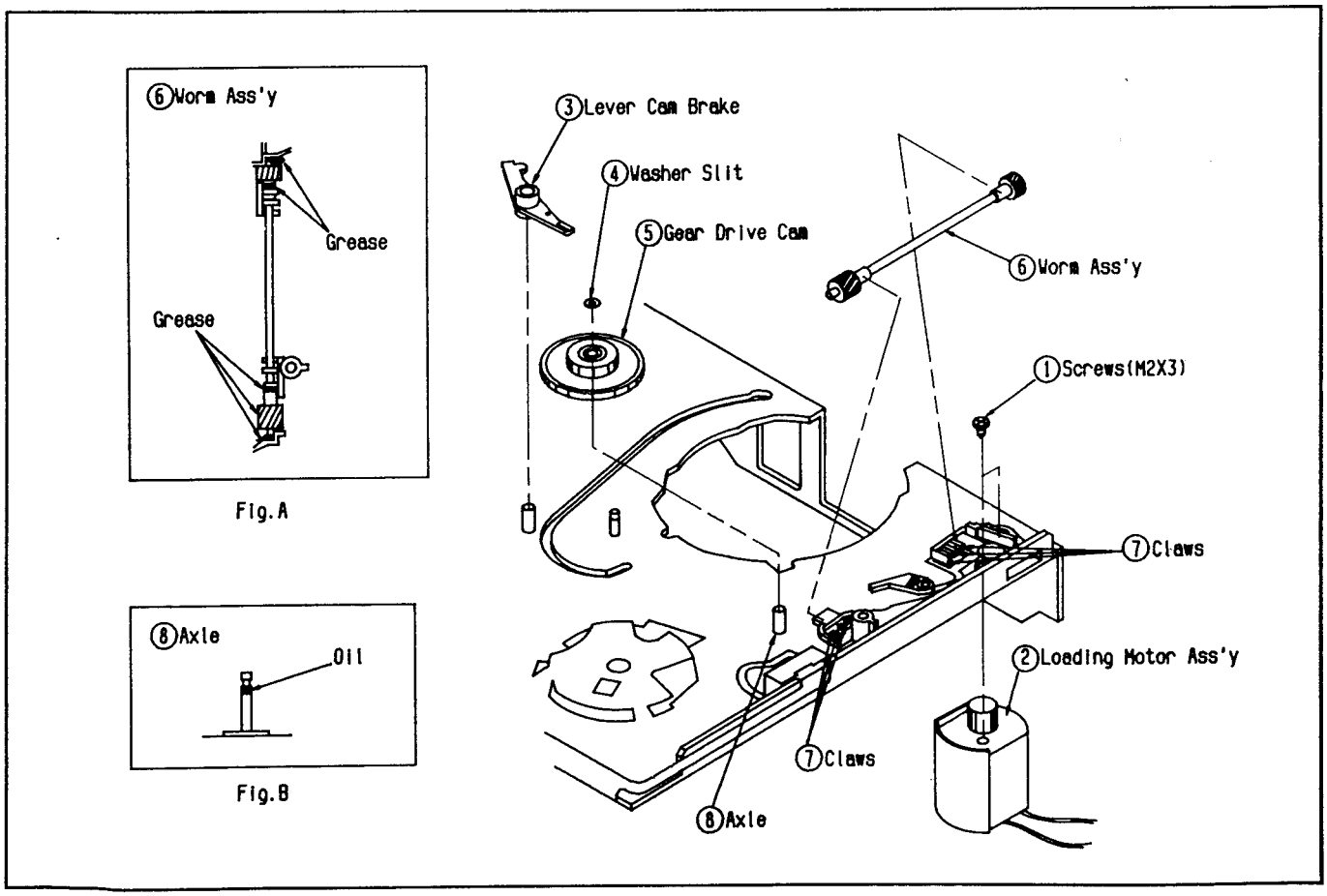


Fig. 34

3. MECHANICAL ADJUSTMENT

3-1. PLAY BACK TENSION ADJUSTMENT (See Fig. 1)

1) Set the torque cassette.
2) Set the PLAY mode and confirm that Reel Disk S torque value is within 10±2g. cm.
3) If the torque value does not meet the specification, adjust the Adjust Tension Spring ①.

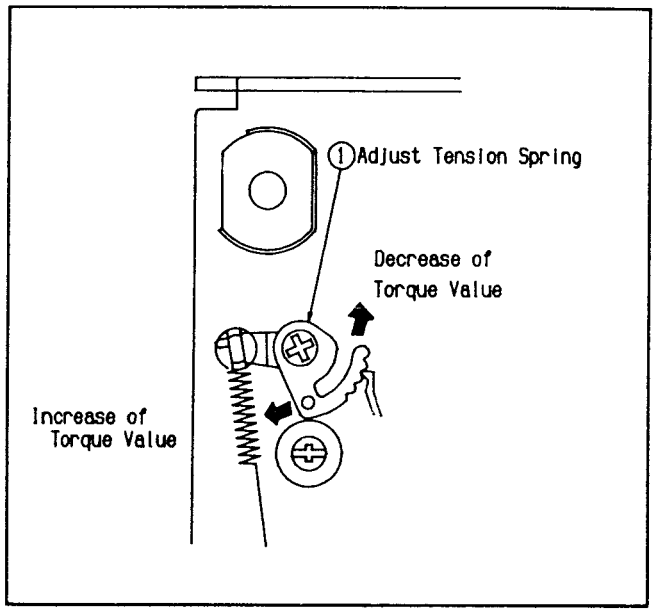


Fig. 1

3-2. REEL TORQUE CHECK

1) Set the torque cassette.
2) Set the PLAY mode and confirm that Reel Disk T torque value is within 11±4 g.cm.
3) Set the REV mode and confirm that Reel Disk S torque value is within 29 ± 6 g.cm.
4) Set the REV mode and confirm that Reel Disk T torque value is within 22 ± 6 g.cm .
5) If a torque value does not meet the specifications above, replace the corresponding Reel Disk.

3-3. TAPE PATH ADJUSTMENT

【The Track Shift Mode】

In the 8mm video system, instantaneous tape speed control is performed using four kinds of pilot signals, and high-precision tracking is achieved through the ATF(Automatic Track Finding) system. This makes a tracking control knob unnecessary and allows for precise tracking.
On the other hand, tape path adjustment presents some difficulties when the ATF system is used. Namely,since the ATF system will automatically compensate to some degree for head tracing errors, thorough adjustment is not possible. This can be solved by setting the track shift mode for tracking fine adjustment. ATF will be compulsorily activated, shifting the tracking amount by a fixed amount (approx. 1/4) and thus making tracking fine adjustment easy. Furthermore, no track shift jigs are required.

3-3-1. TRACK SHIFT MODE SETTING

【Setting Procedure】

- Connect the pin ① and pin ③ to the pin ② (common) (See Fig. 2).

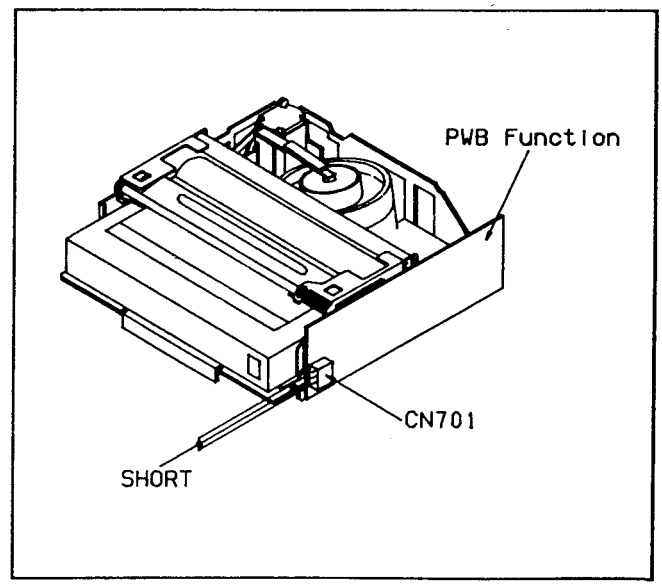


Fig. 2

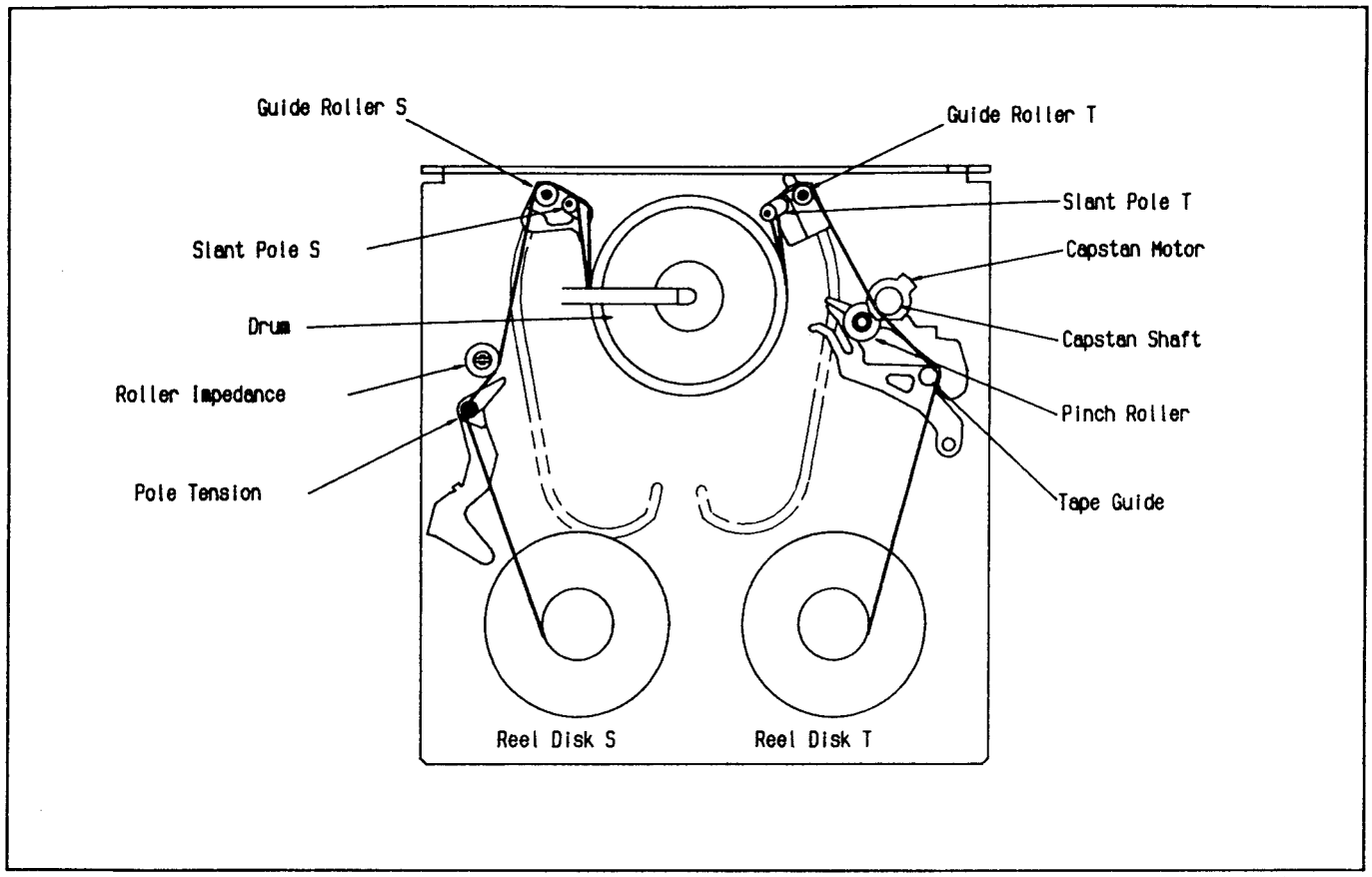


Fig. 3

3-3-2. PREPARATIONS FOR ADJUSTMENT

1) Clean tape path surfaces (tape guides, drum, capstan shaft, pinch roller). (See Fig. 3)
2) Connection of oscilloscope and output method of waveform.
   CH 1 : Connect the PB RF (TP101 - MAIN PCB)
   CH 2 : Connect the H'D S/W (TP501 - MAIN PCB)
3) Play back the alignment tape for tracking adjustment.
4) Confirm that both the entrance and exit side RF waveforms of the oscilloscope are flat (See Fig. 4). If they are not, adjust as follows.

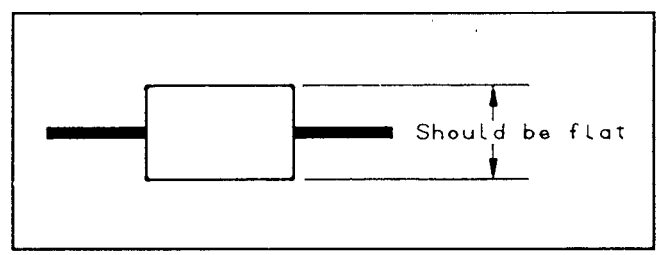


Fig. 4

3-3-3. TRACKING ADJUSTMENT (See Fig. 5)

1) Play back the alignment tape for tracking adjustment.
2) Pass a hexagonal wrench, screwdriver or the like through the hole ①, loosen the Screw Pole Base ② a little, then make the entrance side waveform flat by turning the Guide Roller S ③.
3) Pass a hexagonal wrench, screwdriver or the like through the hole ④, loosen the Screw Pole Base ⑤ a little, then make the exit side waveform flat turning the Guide Roller T ⑥.

Note : Take care not to loosen Screw Pole Base ② and ⑤ too much, since Guide Roller S ③ and Guide Roller T ⑥ come loose easily.

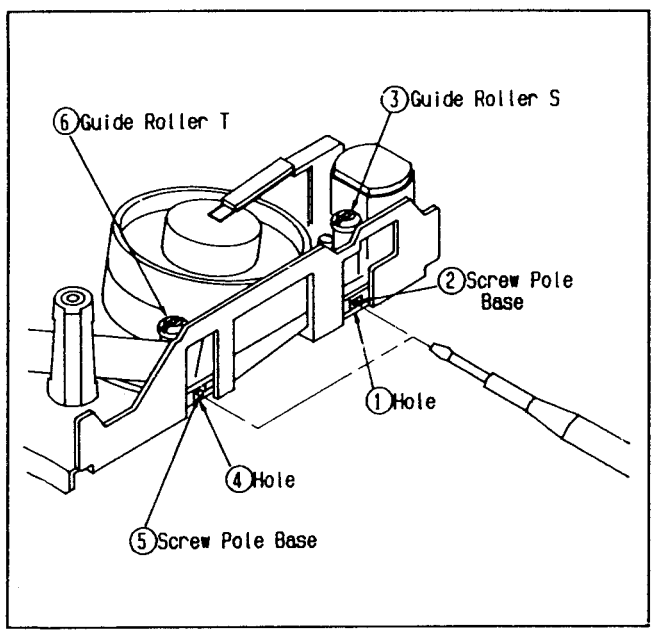


Fig. 5

3-3-4. TRACKING FINE ADJUSTMENT (See Figs. 5 and 6)

1) Play back the alignment tape for tracking adjustment and set the track shift mode.
2) Confirm whether the waveform is flat. If it is not, turn the Guide Roller S ③ and Guide Roller T ⑥ so that it becomes flat.
3) Fix the Guide Roller S ③ by tightening its Screw Pole Base ②. Then confirm that entrance side waveform has not changed.
4) Fix the Guide Roller T ⑥ by tightening its Screw Pole Base ⑤. Then confirm that exit side waveform has not changed.

Note : The Screw Pole Base ② and ⑤ should be tightened with a tightening torque of approx. 200g.cm ±10%. If tightened too much, there is danger of damaging the thread.

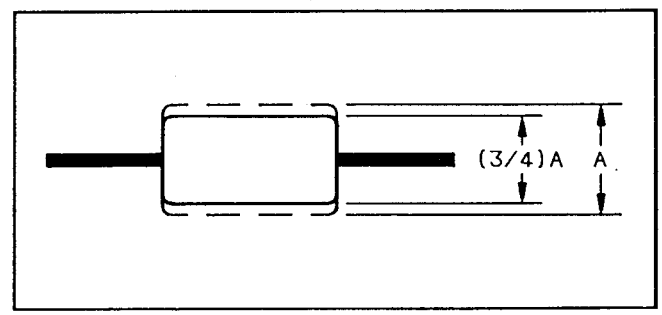


Fig. 6

(Reference)
This mechanism is equipped with four adjustable guides (Roller Impedance, Guide Roller S, Guide Roller T, Tape Guide). To raise or lower the respective guide rotate the corresponding adjustment screw as shown below.

Guide	Guide adjustment	Rotating direction of adjustment screw
Roller Impedance, Guide Roller S, Guide Roller T, Tape Guide	Raise	Counterclockwise
	Lower	Clockwise

http://www.ManualsCenter.com

3-3-5. ROLLER IMPEDANCE ADJUSTMENT

When the Roller Impedance has been turned or replaced, perform height presetting before this adjustment.

1. Roller Impedance Height Presetting (See Fig. 7)

1) Adjust the height from the mechanism chassis upper surface ② to the Cap Impedance ① upper surface to 18.6 mm by rotating the Cap Impedance ①.

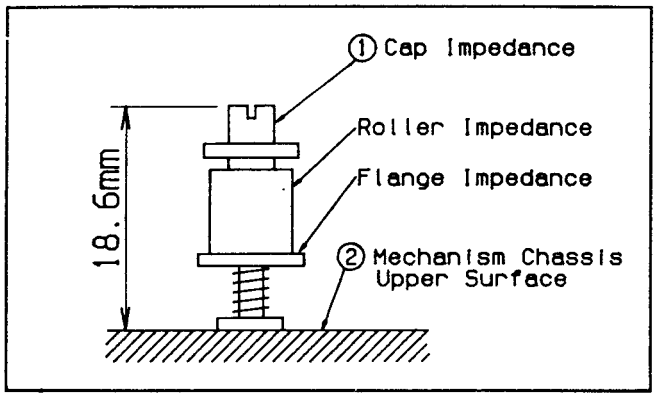


Fig. 7

2. Roller Impedance Adjustment (See Figs. 8 and 9)

1) Play back a tape and set the REV mode.
2) Confirm that the tape is not bent at the Flange Impedance ② of the Roller Impedance ① (See Fig 8). If it is, turn the Cap Impedance ③ of the Roller Impedance ① clockwise with a screwdriver, lowering it until the tape is straightened.
3) Play back the alignment tape for tracking adjustment.
4) Perform tracking adjustment and tracking fine adjustment as described in sections 3-3-3 and 3-3-4.
5) In the track shift mode, CUE/REV the tape, then play it back and confirm that the RF waveform rises flat within 2 seconds.
6) If the waveform is not normal (See Fig. 9), turn the Cap Impedance ③ of the Roller Impedance ① 90° counterclockwise and repeat step 5.
Repeat steps 5 and 6 until a normal waveform is obtained. Then, confirm that the tracking waveform has not changed. If it has, perform fine adjustment of entrance side tracking and repeat step 5.

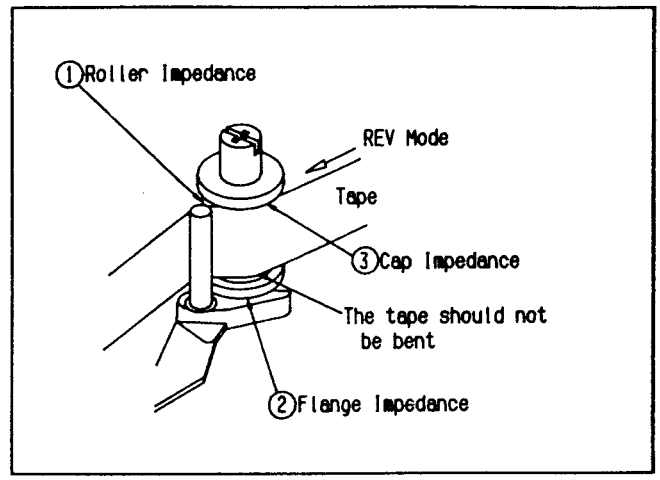


Fig. 8

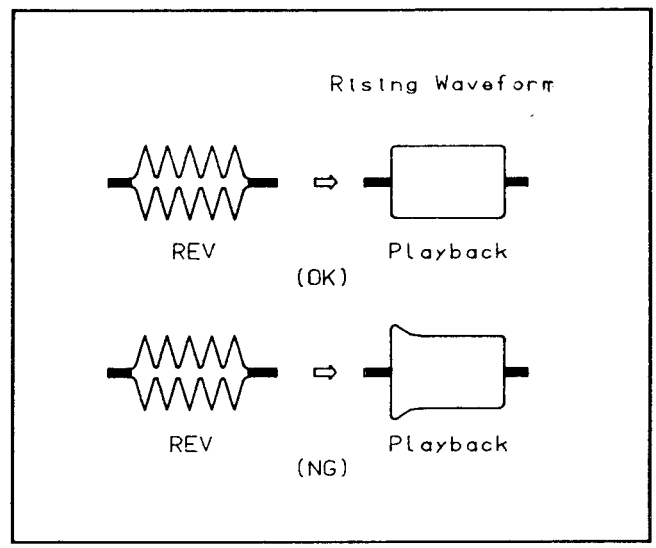


Fig. 9

3-3-6. TAPE GUIDE ADJUSTMENT (See Fig. 10)

1) Play back the alignment tape for tracking adjustment and set the REV mode.
2) Confirm that the tape is not bent between the Guide Roller T ① and the Capstan Motor ②. If it is, turn the Tape Guide ③ until the tape is straightened.
3) Set the playback mode again and confirm that the tape is not bent between the Capstan Motor ② and the Tape Guide (specification : 0.5mm or less). If the tape is bent beyond the specification, turn the Tape Guide ③ until bending is within the specification (0.5mm).
If in the REV mode tape bending between the Guide Roller T ① and the Capstan Motor ② is 0.3 mm or less, adjustment can be considered completed.

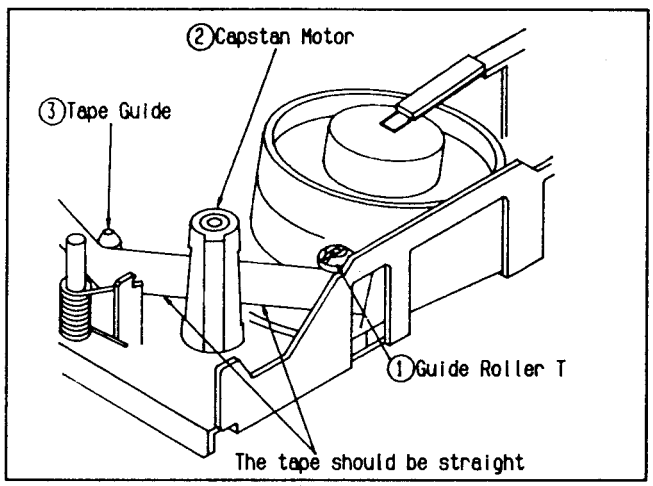


Fig. 10

3-3-7. CUE AND REV WAVEFORM CHECK (See Fig. 11)

1) Play back the alignment tape for tracking adjustment and set the REV mode. Confirm that waveform peaks maintain a constant pinch of 5 seconds or more(See Fig. 11). In case pitch is not constant, perform section 3-3-4 . Tracking Fine Adjustment and section 3-3-6. Tape guide adjustment.
2) Set the CUE mode. Confirm that waveform peaks still maintain a constant pitch of 5 seconds or more (See Fig. 11). Otherwise, Perform section 3-3-4. Tracking Fine Adjustment.

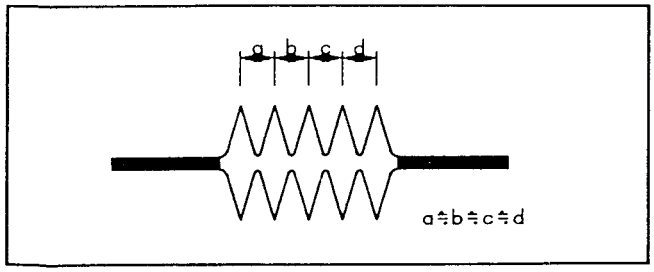


Fig. 11

3-3-8. CHECK AFTER ADJUSTMENT

1. Tracking Check

1) Confirm that the amplitude of RF waveform is reduced to approx. 3/4 when the track shift mode is set (See Fig. 12).
2) Then, confirm that the minimum amplitude value (EMIN) is 65% of the maximum value (EMAX) or larger (See Fig. 13).
3) Confirm that no large fluctuations occur on the waveform (See Fig. 14).

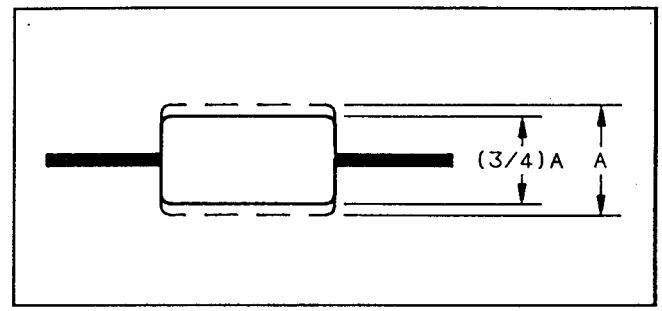


Fig. 12

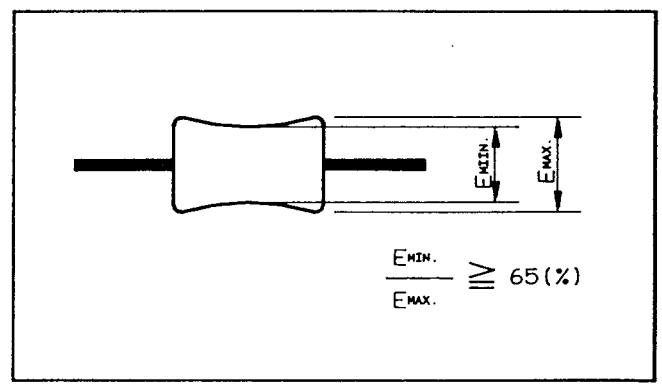


Fig. 13

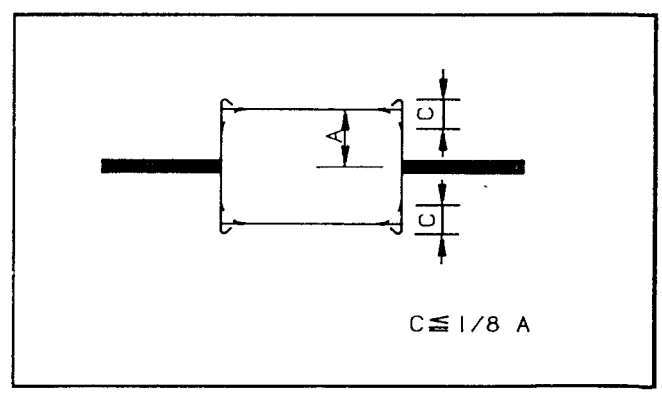


Fig. 14

2. Rising Check (See Fig. 15)

1) Play back the alignment tape for tracking adjustment.
2) Cancel the track shift mode.
3) Eject the tape, then load it again.
4) Set the playback mode and confirm that the RF waveform rises flat within 2 seconds. Also confirm that the tape is not bent around the pinch roller (See Fig. 15).
5) CUE/REV and FF/REW the tape, then play it back and confirm that the RF waveform rises flat within 2 seconds. Also confirm that the tape is not bent around the pinch roller.
6) Repeat steps 3) to 5) once more.

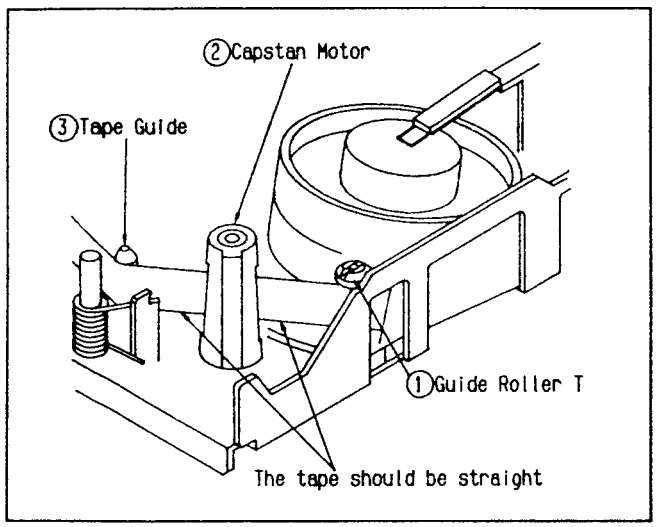


Fig. 15

3. Tape Path Check (See Fig. 16)

1) Play back a tape and confirm that no tape rising occurs, and that curling is less than 0.3mm, at the lower flange of the Roller Impedance, the upper flange of the Guide Roller S, the upper flange of the Guide Roller T and the Tape guide upper and lower flanges.
2) Confirm that no tape rising occurs and that curling is less than 0.3mm at the flanges of all guide when pressing the FF button in the playback mode to set the CUE mode, or the REW button to set the REV mode.

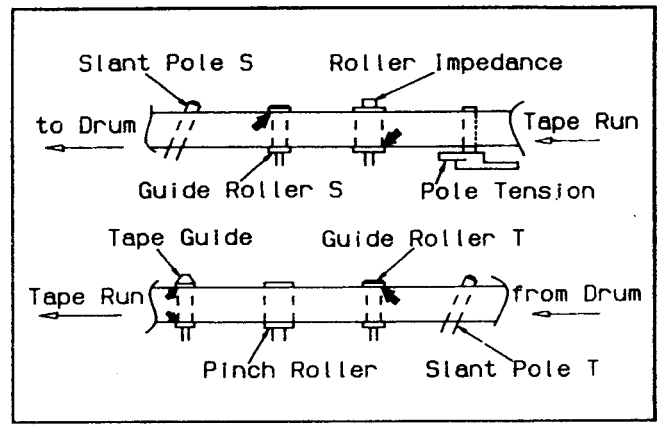


Fig. 16

4. CAMERA ADJUSTMENT

IMPORTANT SERVICE NOTICE

This camera system has E²PROM (ICA01 of AUTO BOARD) which stores the data digital auto focus. When disassembling or assembling, precaution is needed about next points.

1. Readjustment is needed when lens assembly is removed from drive board.
   The reason is that shiftness of zoom track or iris level occurs when drive board and lens ass'y are reassembled after removed.
2. Readjustment is needed when E²PROM (ICA01 of AUTO BOARD) and zoom lens ass'y are replaced.
   The reason is that E²PROM stores confirmed adjustment value of every adjustment steps.
   Therefore when replacing, adjustment is needed for store of data.
3. All adjustment steps of camera section should be performed with using the camera control jig.

4-1. PREPARATIONS

4-1-1. Features

* CCD Pick Up Device
* Power Zoom Lens (Digital Auto Focus)
* Auto IRIS
* Electronic Viewfinder
* Variable High Speed shutter
* Fade in/out
* Auto lock
* Title
* Auto White Balance

4-1-2. Equipment to be used

1) Oscilloscope
2) Digital voltmeter
3) Power supply
4) PAL vectorscope
5) PAL waveform monitor
6) PAL color monitor
7) Various charts
   - Color bar chart
   - Gray-scale chart, etc
8) Alignment tape (SE1-2L)

4-1-3. Composition of Camera P.C.Boards

1) Process PCB
2) Auto PCB
3) Drive PCB
4) Function PCB
5) EVF

4-1-4. Distance of Camera and Charts

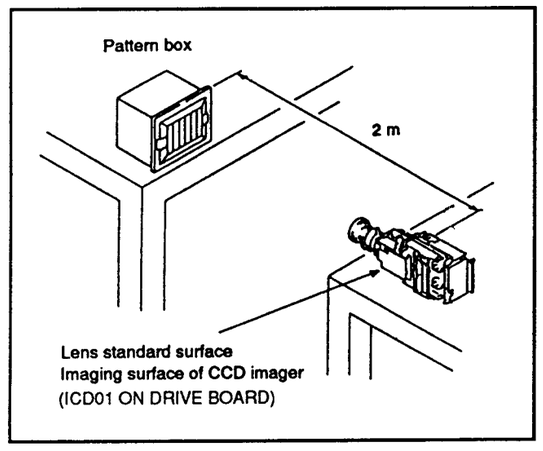
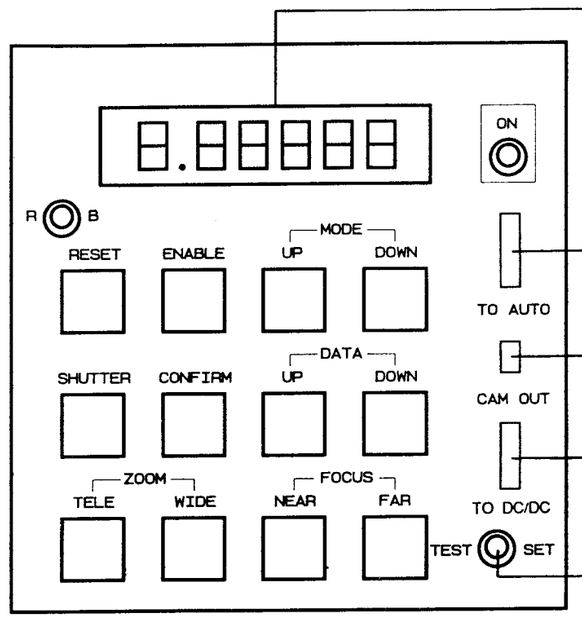


Fig. 1

SERVICE JIGS

Jig Item	Code-No	Description
Camera CTL Jig Unit	68140-400-002	When ordering this unit, be sure to order unit together with translation cables - 1, 2, 3.
Translation Cable -1 (10Pin)	68140-400-003	This cable is used only for model ; VP-E807. The color of cable is green.
Translation Cable -2 (2 Pin)	68140-400-004	
Translation Cable -3 (8 Pin)	68140-400-005	

(CAMERA CONTROL JIG)



(TOP VIEW)

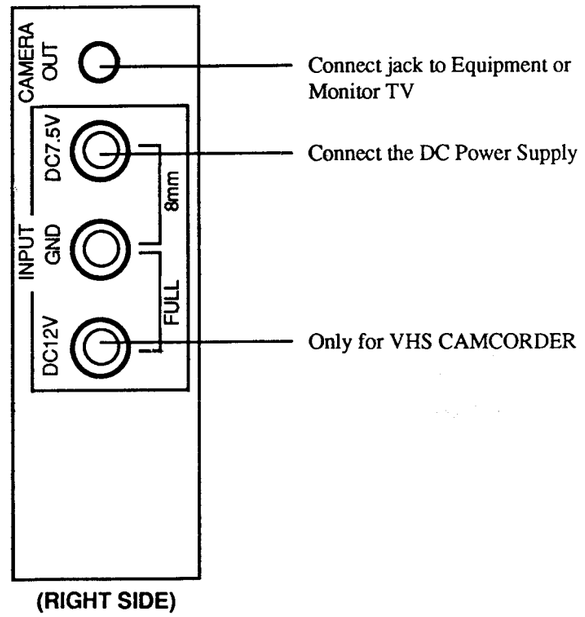
CONTROL JIG MODE
E.0 = AF (AUTO FOCUS)
0.1 = IRIS CONTROL MODE
0.2 = HALL CONTROL
0.3 = W/B OUTDOOR
0.4 = W/B INDOOR
0.5 = W/B AUTO

Translation Cable - 1 (10 Pin)
Connect harness to CNA06 of AUTO Board

Translation Cable - 2 (2 Pin)
Connect harness to CNA08 of AUTO Board

Translation Cable - 3 (8 Pin)
Connect harness to CNA09 of AUTO Board

TEST ; ADJUSTMENT mode
SET ; SET TEST mode



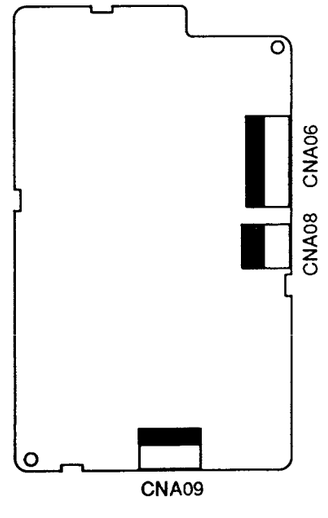
Connect jack to Equipment or Monitor TV

Connect the DC Power Supply

Only for VHS CAMCORDER

(RIGHT SIDE)

The location of connector



(BOTTOM SIDE OF AUTO BOARD)

4-2. CAMERA SYSTEM ADJUSTMENT

NOTE

The Camera System adjustment should be performed by steps.

STEP	ADJUSTMENT ITEM
1. MODE and INPUT SIGNAL/ALIGNMENT TAPE 2. TEST POINT and ADJ. part 3. RESULT & REMARKS	ADJ. part Test Point

1 ZOOM TRACKING

(With using the Focus Chart)

1. CAMERA "E-E" (control jig mode = .0)
2. Control jig and Focus Chart (at end of S/M).
3. 1) Set the power switch of the jig to the "ON" position and set the TEST/SET s/w to the "TEST" position.
   2) Check the jig mode =.0 then push the RESET s/w.
   3) Aim the camera at the focus chart. (See Fig. 1)
   4) Set the R/B switch to the "B" position and push the ENABLE s/w. Then, zoom position is "WIDE" state.
   5) Push the NEAR s/w and FAR s/w so that the focus state moves to the just focus on the focus chart. (Fig. 2)
   6) Set the R/B switch to the "R" position then, zoom position is "TELE" state.
   7) Push the NEAR s/w and FAR s/w so that the focus state moves to the just focus on the focus chart. (Fig. 1)
   8) Set the R/B switch to the "B" position and check the focus at the zooming state. (TELE, WIDE)
   9) Set the R/B switch to the "R" position.
   If focus is just point, zoom do not move.
   Then be sure to push the "CONFIRM" s/w.
   10) Power OFF and set the TEST/SET s/w to the "SET" position.
   11) Power ON and check the auto focus. (See Fig. 2)
   12) And then, set the "TEST" position.

HOW TO INSTALL THE FOCUS CHART

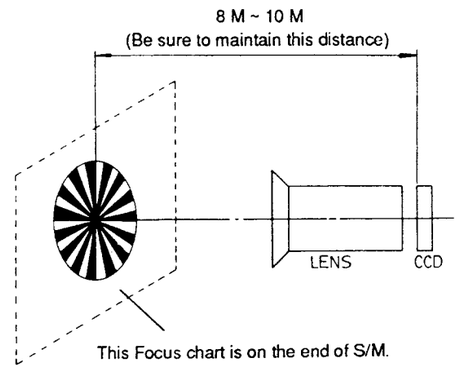


Fig. 1

AUTO FOCUS CHECK METHOD

1. Set up condition as shown in Fig.
2. Check the auto focus. (TELE, WIDE)
   Test Chart ; Siemens focus chart

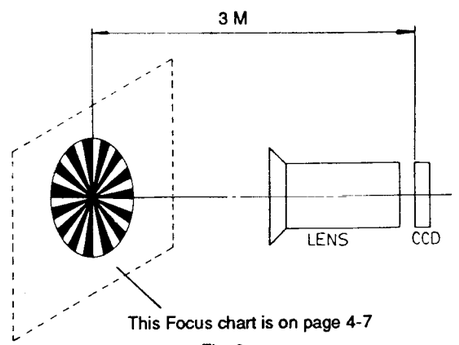
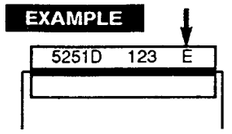


Fig. 2

2 V OFD

1. CAMERA "E-E" (control jig mode = .1), no signal input.
2. TP01 (V OFD) & VRD01 (V OFD).
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * V OFD specified voltage is indicated by one digit.
   (Side of the CCD image sensor)
   * Connect digital voltameter probe to TP01.
   * Adjust VRD01 so that V OFD is the specified voltage (DC).

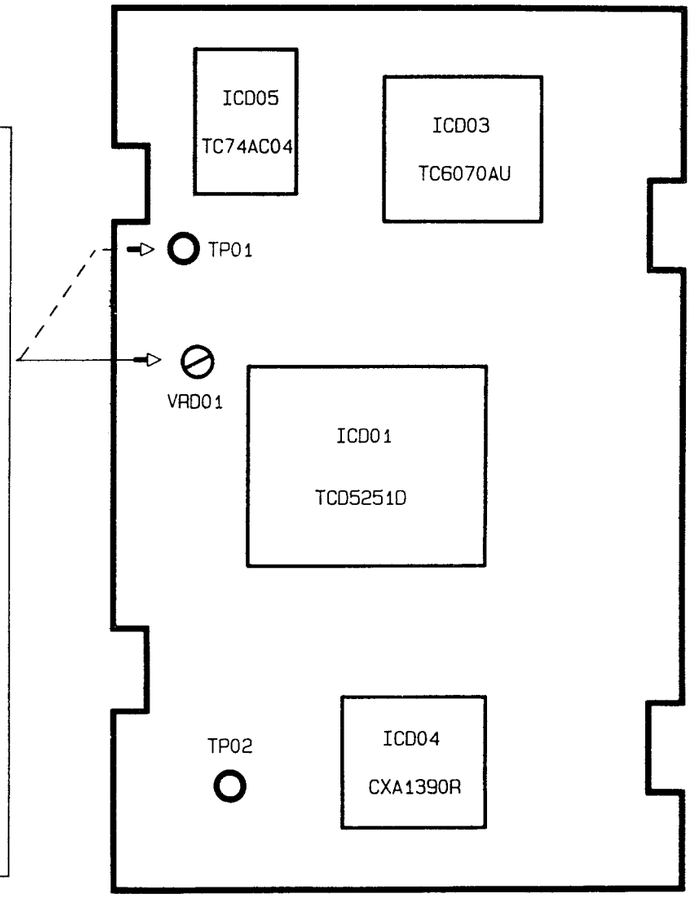
EXAMPLE



★ 5251D : CCD Device name
★ 123 : Lot name
★ E : V OFD voltage code address
E = 9.0V

(Table for V OFD Voltage)

Digit	V OFD Voltage	Digit	V OFD Voltage	Digit	V OFD Voltage
2	3.0V	D	8.5V	Q	14.0V
3	3.5V	E	9.0V	R	14.5V
4	4.0V	F	9.5V	S	15.0V
5	4.5V	G	10.0V	T	15.5V
6	5.0V	H	10.5V	U	16.0V
7	5.5V	J	11.0V	V	16.5V
8	6.0V	K	11.5V	W	17.0V
9	6.5V	L	12.0V	X	17.5V
A	7.0V	M	12.5V	Y	18.0V
B	7.5V	N	13.0V	Z	18.5V
C	8.0V	P	13.5V	-	-



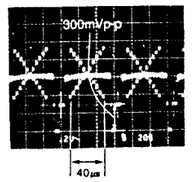
DRIVE PCB (BOTTOM SIDE)

3 | 4 fsc

1. CAMERA "E-E" (control jig mode = .1), no signal input.
2. TP01 (4 fsc) & CTP01 (4 fsc PLL).
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Connect digital voltameter probe to TP01.
   * Adjust CTP01 so that the voltage is DC 2.5 ± 0.2V.

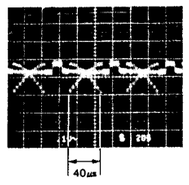
10 | SYNC LEVEL

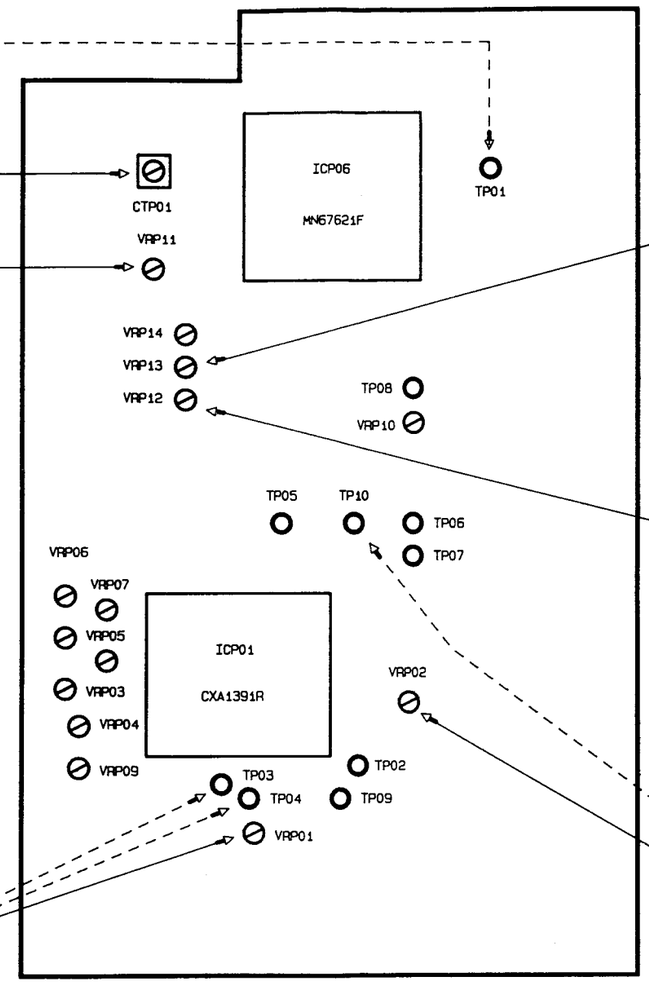
1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. VIDEO out (side of control jig) & VRP11.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect waveform monitor input jack to VIDEO out.
   * Adjust VRP11 so that the sync level is 300mVp-p.



8 | Y_2 LEVEL

1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. TP03 (Y_1), TP04 (Y_2) & VRP01.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect an oscilloscope's CH-1 to TP03 and CH-2 to TP04.
   * Adjust VRP01 so that the signal of TP03 (Y_1) and TP04 (Y_2) are equal.

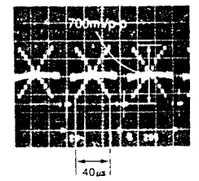




PROCESS PCB (TOP SIDE)

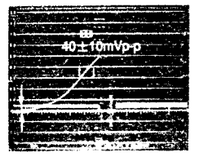
11 | Y LEVEL

1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. VIDEO out (side of control jig) & VRP13.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect waveform monitor input jack to VIDEO out.
   * Adjust VRP13 so that the Y level is 700mVp-p.



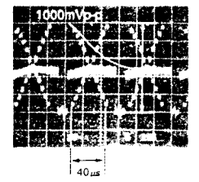
9 | SET UP LEVEL

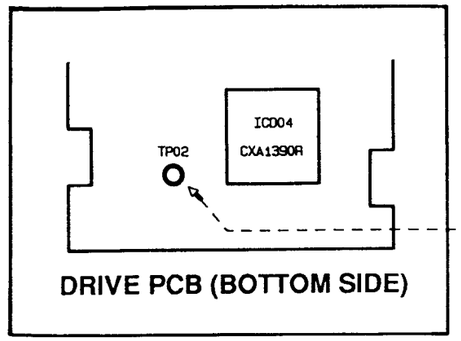
1. CAMERA "E-E" (control jig mode = .1), no signal input.
2. VIDEO out (side of control jig) & VRP12.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Close the camera lens cap.
   * Connect waveform monitor input jack to VIDEO out.
   * Adjust VRP12 so that the set up level is 40± 10mVp-p.



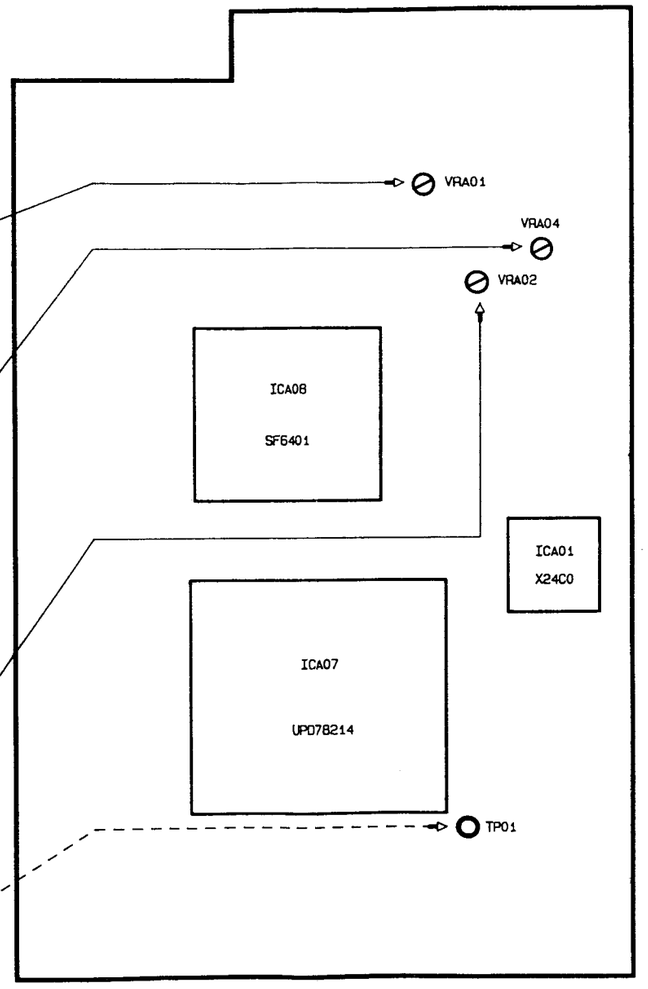
6 | YH LEVEL

1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. TP10 & VRP02.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect an oscilloscope CH-1 to TP10.
   * Adjust VRP02 so that the signal level is 1000mVp-p.





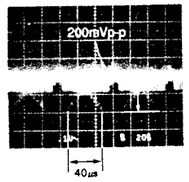
DRIVE PCB (BOTTOM SIDE)



AUTO PCB (BOTTOM SIDE)

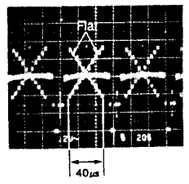
4 AUTO IRIS

1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. TP02 (CCD out) & VRA01 (IRIS) -Drive PCB
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect an oscilloscope CH-1 to TP02.
   * Adjust VRA01 so that the signal level is 200mVp-p.
   * Be sure to push the "CONFIRM S/W" on the control jig.



7 Y-γ LEVEL

1. CAMERA "E-E" (control jig mode = .1), Gray-scale chart standard picture frame.
2. VIDEO out (side of control jig) & VRA04.
3. * Set the control jig mode to ".1" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a gray-scale chart. (40us in waveform monitor)
   * Connect waveform monitor input jack to VIDEO out.
   * Adjust VRA04 so that the signal output state of the waveform monitor is flat.

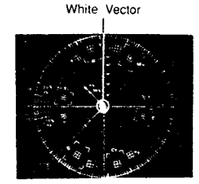


5 HALL

1. CAMERA "E-E" (control jig mode = .2), no signal input.
2. TP01 & VRA02
3. * Set the control jig mode to ".2" using the "MODE UP/DOWN" s/w.
   * Close the camera lens cap.
   * Control jig mode = .2 is iris closed state.
   * Connect digital voltameter probe to TP01.
   * Adjust VRA02 so that the voltage is DC 0.5 ~ 1V.

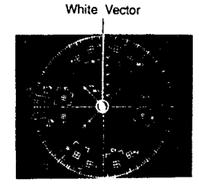
17 W/B OUTDOOR

1. CAMERA "E-E" (control jig mode = .3), 5100° K gray-scale chart.
2. VIDEO out (side of control jig).
3. * Set the control jig mode to ".3" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a 5100° K gray-scale chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust the DATA (UP/DOWN) S/W so that the white vector moves to the center on screen of the vectorscope.
   * Be sure to push the "CONFIRM " S/W on the control jig.



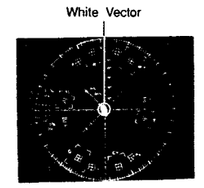
18 W/B INDOOR

1. CAMERA "E-E" (control jig mode = .4), 3100° K color bar chart.
2. VIDEO out (side of control jig).
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a 3100° K color bar chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust the DATA (UP/DOWN) S/W so that the white vector moves to the center on screen of the vectorscope.
   * Be sure to push the "CONFIRM " S/W on the control jig.



19 AUTO WHITE BALANCE

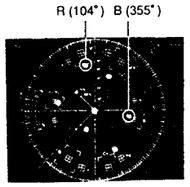
1. CAMERA "E-E" (control jig mode = .5), 5100° K color bar chart.
2. VIDEO out (side of control jig).
3. * Set the control jig mode to ".5" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a 5100° K color bar chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust the DATA (UP/DOWN) S/W so that the white vector moves to the center on screen of the vectorscope.
   * Be sure to push the "CONFIRM " S/W on the control jig.



http://www.ManualsCenter.com

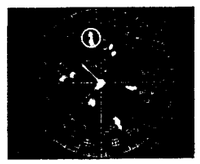
14 HUE LEVEL

1. CAMERA "E-E" (control jig mode = .4), Color bar chart standard picture frame. (3100° K)
2. VIDEO out (side of control jig) & VRP06 (R-Y Hue), VRP05 (B-Y Hue)
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a color bar chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust VRP06 (R-Y), VRP05 (B-Y) so that the level is R vector 104° and B vector 355°.

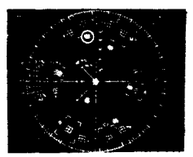


12 C1 LEVEL

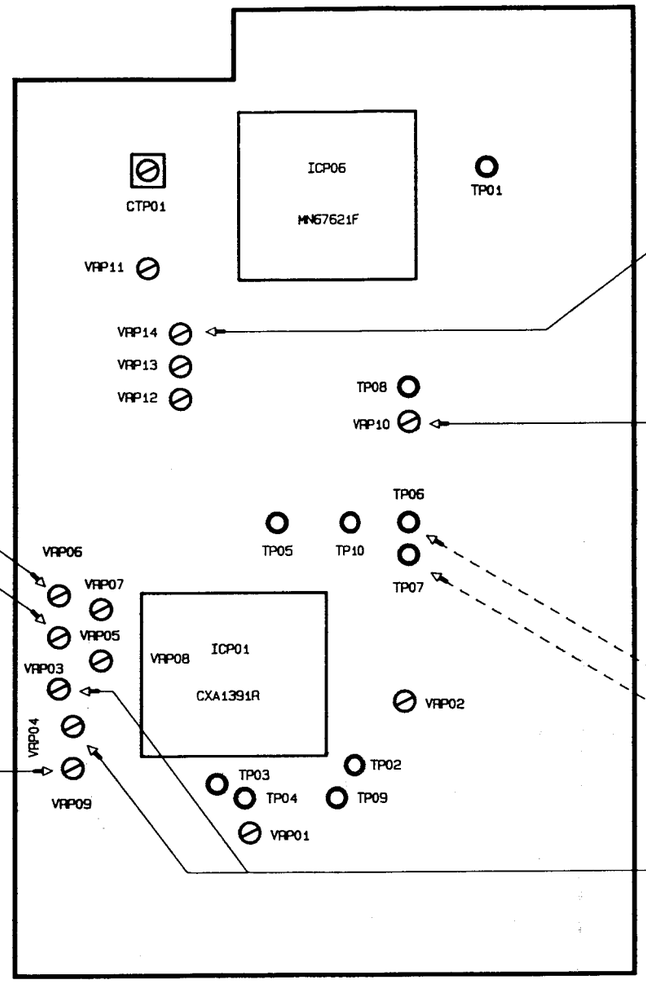
1. CAMERA "E-E" (control jig mode = .4), Color bar chart standard picture frame. (3100° K)
2. VIDEO out (side of control jig) & VRP09.
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a color bar chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust VRP09 so that the color - vectors phase difference are 0°.



(Before Adjustment)



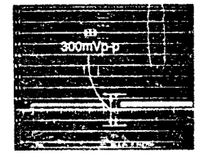
(After Adjustment)



PROCESS PCB (TOP SIDE)

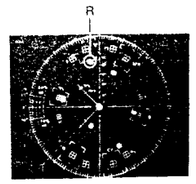
16 BURST LEVEL

1. CAMERA "E-E" (control jig mode = .4), Color bar chart standard picture frame. (3100° K)
2. VIDEO out (side of control jig) & VRP14.
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a color bar chart.
   * Connect waveform monitor input jack to VIDEO out.
   * Adjust VRP14 so that the burst level is 300mVp-p.



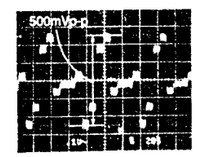
15 COLOR LEVEL

1. CAMERA "E-E" (control jig mode = .4), Color bar chart standard picture frame. (3100° K)
2. VIDEO out (side of control jig) & VRP10.
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a color bar chart.
   * Connect vectorscope input jack to VIDEO out.
   * Adjust VRP10 so that the R vector moves to the "R" character on screen.

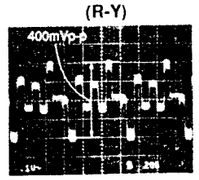


13 R-Y, B-Y

1. CAMERA "E-E" (control jig mode = .4), Color bar chart standard picture frame. (3100° K)
2. TP06 (R-Y), TP07 (B-Y) & VRP04 (R-Y), VRP03 (B-Y).
3. * Set the control jig mode to ".4" using the "MODE UP/DOWN" s/w.
   * Aim the camera at a color bar chart.
   * Connect an oscilloscope CH-1 to TP06 (R-Y).
   * Adjust VRP04 (R-Y) so that the signal level is 500mVp-p.
   * Connect an oscilloscope CH-1 to TP07 (B-Y).
   * Adjust VRP03 (B-Y) so that the signal level is 400mVp-p.



(R-Y)



(B-Y)

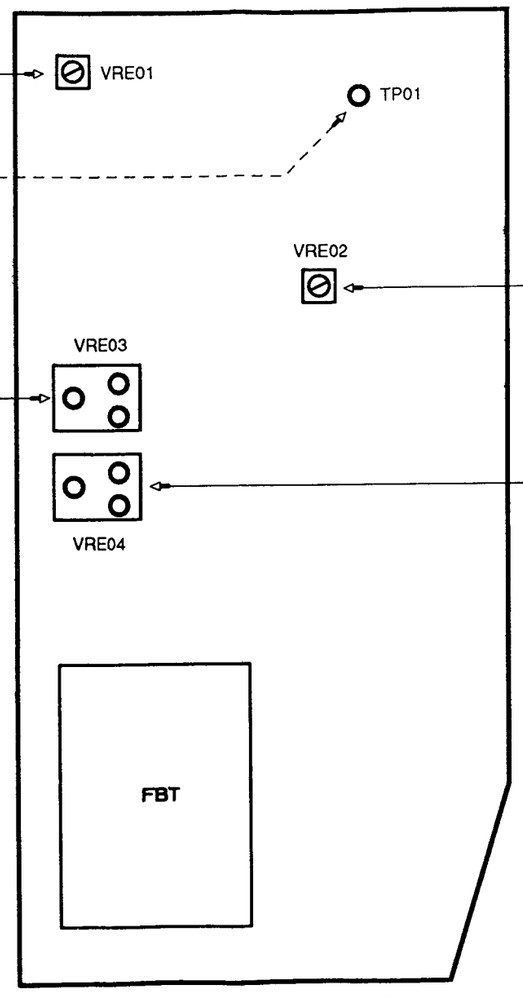
4-3. E.V.F SYSTEM ADJUSTMENT

1 AFC

1. VTR "PB", Alignment tape SE1-2L (Lion pattern).
2. TP01 & VRE01.
3. * Connect digital voltameter probe to TP01.
   * Adjust VRE01 so that the voltage is DC 2.0V.

2 BRIGHT

1. VTR "PB", Alignment tape SE1-2L (Lion pattern).
2. Viewfinder & VRE03.
3. * Adjust the VRE03 so that the stair on the lion pattern is distinguished 3th and 4th stairs.



E.V.F PCB (TOP SIDE)

4 V. SIZE

1. VTR "PB", Alignment tape SE1-2L (Lion pattern).
2. Viewfinder & VRE02.
3. * Adjust the VRE02 so that the center circle on the lion pattern is perfect circle.

3 FOCUS

1. VTR "PB", Alignment tape SE1-2L (Lion pattern).
2. Viewfinder & VRE04.
3. * Adjust the VRE04 for best resolution in the viewfinder.

5. VTR ADJUSTMENT

5-1. PREPARATIONS

Use the following measuring instruments for adjustment of the VTR block.

5-1-1. Equipment to be used

1) Monitor TV
2) Dual trace oscilloscope of over 10MHz band, incorporates delay mode. (Use 10 : 1 probe unless otherwise specified)
3) Frequency counter
4) Pattern generator with video output terminal
5) Digital voltmeter
6) Audio generator
7) Audio level meter
8) Audio distortion meter
9) Audio attenuator
10) Regulated power supply
11) Alignment tapes
    Video frequency characteristics adjustment (SEM-2L)
    Operation check (SE2-2L : LP), (SE2-2 : SP)

5-1-2. Composition of VTR P.C.Boards

1) Main PCB (System Control/Servo, Pre-Amp, Audio)
2) Video PCB
3) Function PCB
4) DC/DC Converter PCB
5) Start/Stop PCB
6) MIC PCB

5-1-3. Connection of equipment

Unless otherwise specified, adjustment is made with the measuring instrument connected as shown in the diagram below.

- Camera/video power switch . . . . . Video position

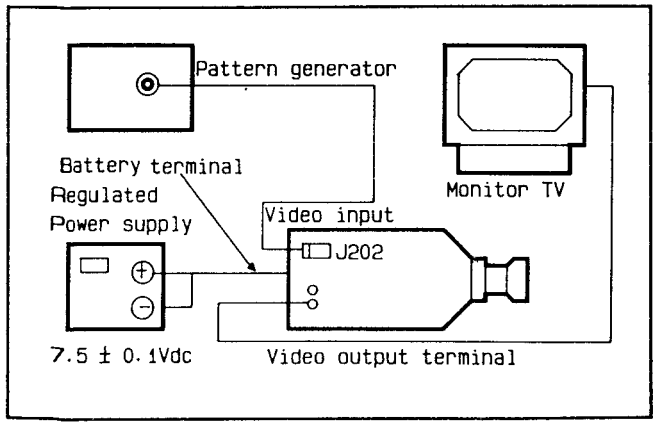


Fig. 1

5-1-4. Set-up during adjustment

Since the video output signal obtained from the pattern generator is used as the adjusting signal for the VTR block, it is necessary that this video output signal be within the required specifications. Connect an oscilloscope to J202 (video input terminal) on the video Y/C board and make sure that the amplitude of the video SYNC signal is approximately 0.3V, that the video block amplitude is approximately 0.7V, that the burst signal amplitude is approximately 0.3V with flat characteristics, and the signal level ratio between the burst signal and "Red" signal is 0.30 : 0.66. The video signal (color bars) used for VTR block electrical adjustment are shown in Fig. 2.

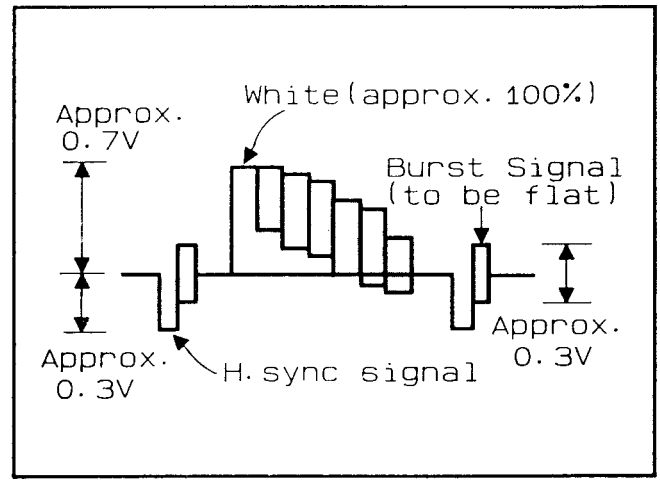
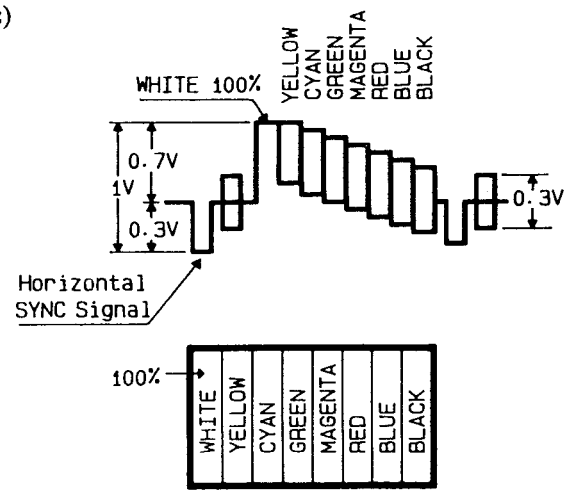


Fig. 2 Color bar signal of pattern generator

5-1-5. Alignment tapes

Tape	Content	Use
Tracking (SE4-2L)	1. Recording area : PCM - video 2. Recording content : CH2 : 1 MHz linearity adjustment signal (CH1 : 9 MHz)	Drum linearity adjustment
Video Frequency Response (SEM-2L)	1. Recording area : Video 2. Recording content : RF sweep 0 to 10 MHz 3. Maker 1, 3.58, 5.5 and 7 MHz	Frequency response adjustment
Operation Check SP mode (SE2-2) LP mode (SE2-2L) **Note :** PCM area is not included in SE2-2L	1. Recording area : Video 2. Recording content : ■ Video area • Video signals Color bars 4 minutes Monoscope 4 minutes (Color bars)  • Audio signals (AFM) 400 Hz 60% modulation ■ PCM area • Audio signals (PCM) 1 KHz 4 minutes color bar 20 Hz 2 sec 400 Hz 4 sec → Iterative 14 KHz 2 sec Monoscope	Operation check

5-2. DC/DC CONVERTER SECTION

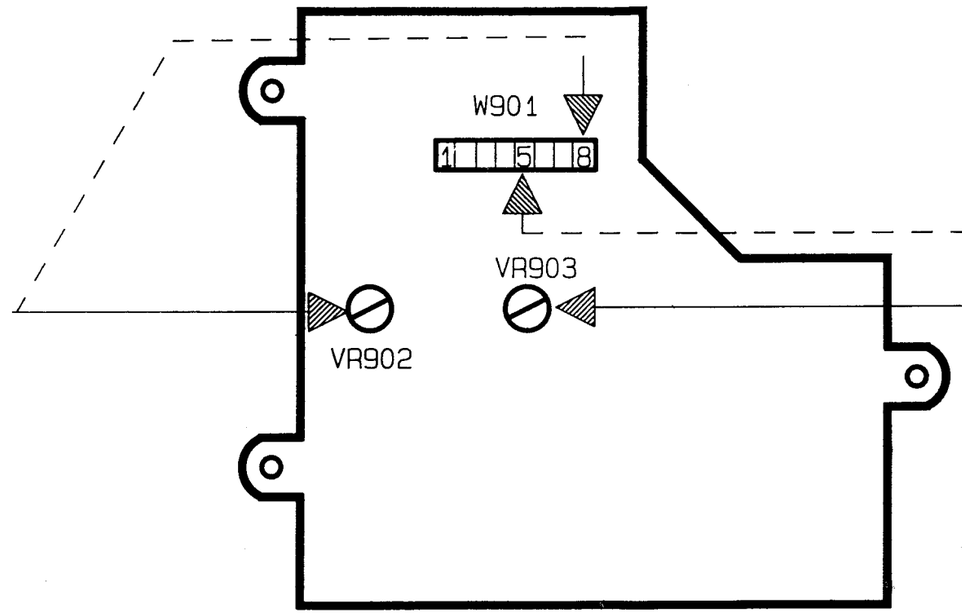
NOTE

From now on, the structure of every adjustment is as follows.

STEP	ADJUSTMENT ITEM
1. MODE and INPUT SIGNAL/ALIGNMENT TAPE 2. TEST POINT and ADJ. part 3. RESULT & REMARKS	ADJ. part → Test Point ⇢

1	DC 5V

1. CAMERA, no signal input.
2. Pin 8 of W901 & VR902.
3. * Connect digital voltmeter probes to pin 8 of W901.
   * Adjust VR902 so that the digital voltmeter becomes DC 5.0 ± 0.1V.



DC/DC CONVERTER PCB
(TOP SIDE)

2	DC 15V

1. CAMERA, no signal input.
2. Pin 5 of W901 & VR903.
3. * Connect digital voltmeter probes to pin 5 of W901.
   * Adjust VR903 so that the digital voltmeter becomes DC 15 ± 0.1V.

5-3. SYSTEM CONTROL/SERVO SECTION

1 BATTERY DOWN VOLTAGE

CONNECTIONS

- ◆ Connect a regulated power supply and digital voltmeter as shown in Fig. 1.
- ◆ Connect pin 1 and pin 2 of CN701 on the VTR function board with a jumper wire. (See Fig. 2)

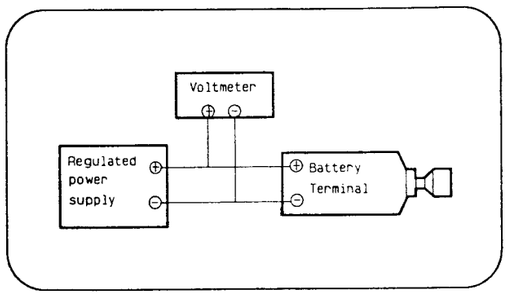


Fig. 1

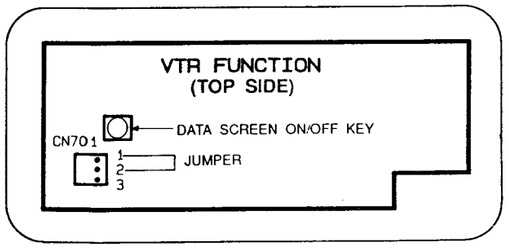
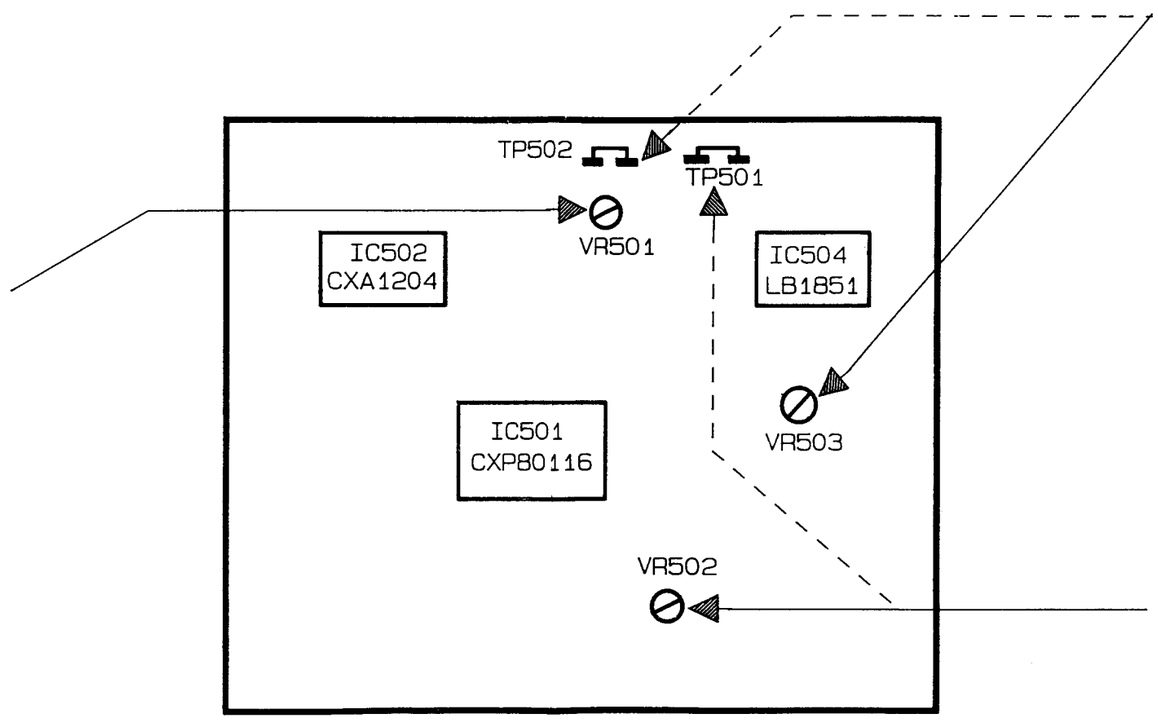


Fig. 2

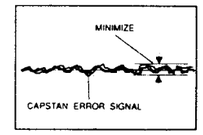
1. CAMERA Recording, no signal input.
2. Monitor Screen & VR501.
3. * Press the START/STOP button for camera recording.
   * Confirm that the indication on the digital voltmeter is DC 5.65 ± 0.01 V.
   * Press data screen key on the Function Board to display the counter on the monitor screen.
   * Adjust VR501 so that the counter data is 0:02:88 ~ 0:02:90.



MAIN PCB (TOP SIDE)

3 CAPSTAN FG

1. "LP-PB", Alignment tape SE2-2L.
2. TP502 & VR503.
3. * Connect an oscilloscope to TP502.
   * Adjust VR503 so as to minimize the width of voltage with LP-PB mode.



2 HEAD SWITCHING POINT

CONNECTIONS

- ◆ Connect pin 2 and pin 3 of CN701 on the VTR function board with a jumper wire. (See Fig. 1)

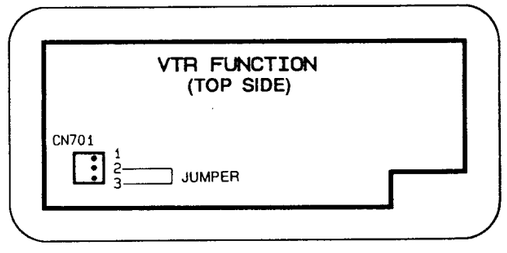
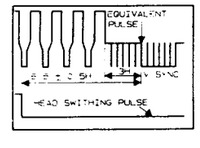


Fig. 1

1. "PB", Alignment tape SE2-2.
2. Video out terminal, TP501 (Trigger) & VR502.
3. * Connect an oscilloscope's CH-1 to TP501 for trigger and CH-2 to Video out terminal.
   * Adjust VR502 so that the switching point is positioned 6.5 ± 0.5H from the V-SYNC left edge as shown.



http://www.ManualsCenter.com

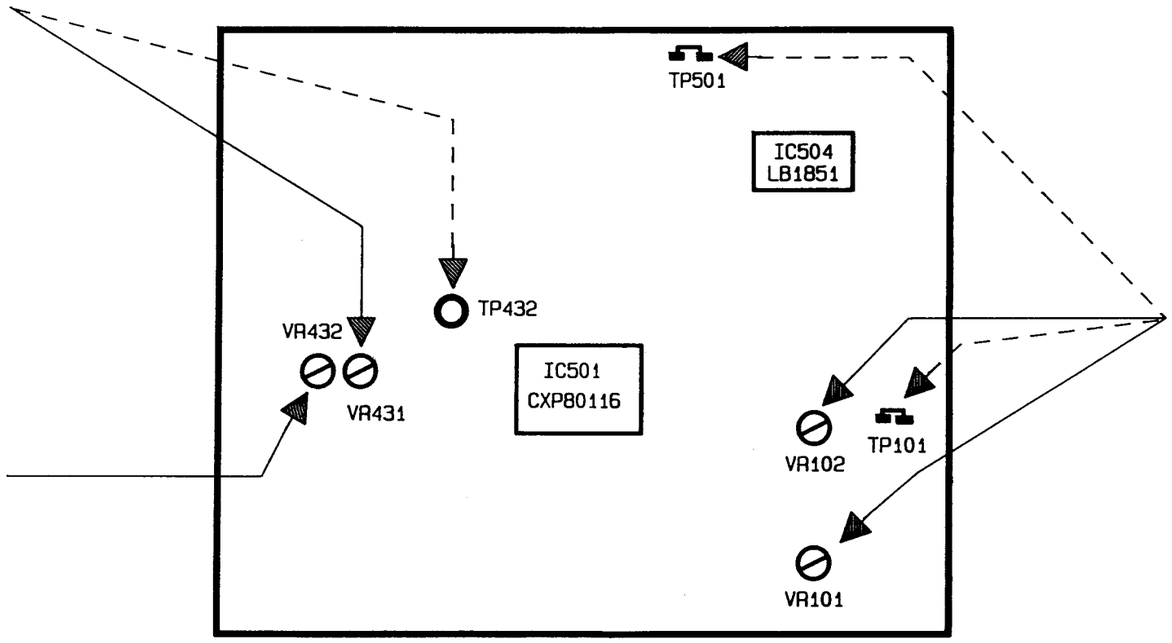
5-4. AUDIO SECTION

1	CARRIER FREQUENCY

1. "PB", Alignment tape SE2-2.
2. TP432 & VR431.
3. * Connect digital voltmeter probes to TP432.
   * Adjust VR431 so that the digital voltmeter becomes DC 2.1 ± 0.1V.

2	DEVIATION

1. "PB", Alignment tape SE2-2.
2. AUDIO out terminal (VIDEO PCB) & VR432.
3. * Connect AC voltmeter probes to Audio out terminal.
   * Adjust VR432 so that the AC voltmeter becomes -7 ± 0.2dB.

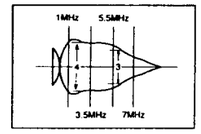


MAIN PCB (TOP SIDE)

5-5. PRE-AMP SECTION

1	FREQUENCY CHARACTERISTIC

1. "PB", Alignment tape SEM-2L.
2. TP101, TP501 (Trigger slope : + (-)) & VR101 (VR102).
3. * Connect an oscilloscope's CH-1 to TP501 for triggering and CH-2 to TP101.
   * Adjust VR101 (VR102) so that the ratio of the 3.58MHz level to the 5.5MHz level is 4 : 3.

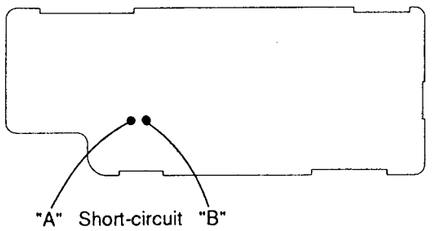


NOTE : Items between square brackets ( ) indicate the adjusting element for channel-2.

5-6. VIDEO SECTION

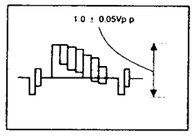
HOW TO RECORD

Use this method only when VTR is adjusted at recording mode.
- Short-circuit "A" and "B" point on VTR function board (Bottom side) as shown in Fig.



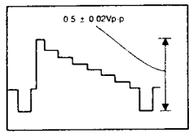
3 VIDEO OUT LEVEL

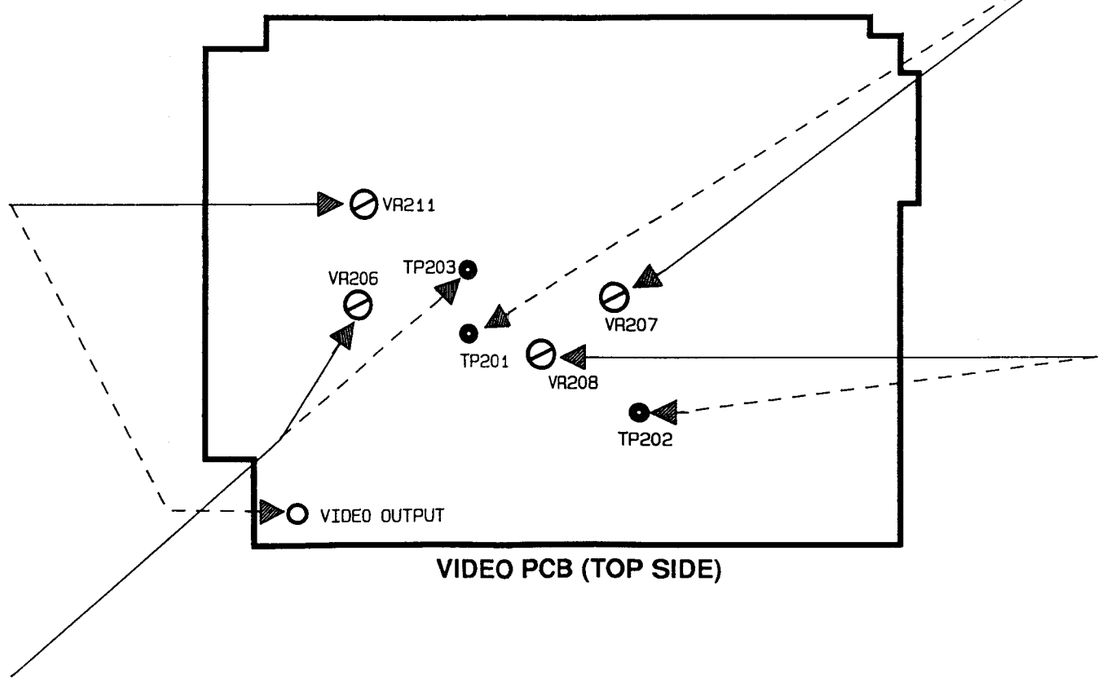
1. "E-E", Color bar signal (Video input connect J202).
2. VIDEO out terminal & VR211.
3. * Connect an oscilloscope to video out terminal.
   * Adjust VR211 for 1.0 ± 0.05Vp-p from sync tip to white peak level.



4 EMPHASIS INPUT LEVEL

1. "REC", Color bar signal (Video input connect J202).
2. TP203 & VR206.
3. * Connect an oscilloscope to TP203.
   * Adjust VR206 for 0.5 ± 0.02Vp-p from sync tip to white peak level.

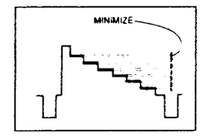




VIDEO PCB (TOP SIDE)

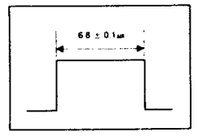
1 Y/C SEPARATION

1. "REC", Color bar signal (Video input connect J202).
2. TP201 & VR207.
3. * Connect an oscilloscope to TP201.
   * Adjust VR207 so as to minimize the residual chroma component.



2 IR2

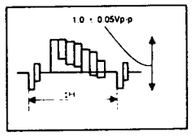
1. "REC", Color bar signal (Video input connect J202)
2. TP202 & VR208
3. * Connect an oscilloscope to TP202.
   * Adjust VR208 so as to align 6.8 μs at the falling edga( ).



7 Y-FM DEVIATION

NOTE : Confirm that "PB LEVEL" and "Y FM CARRIER FREQUENCY" adjustment have completed.

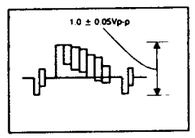
1. "REC → PB", Color bar signal (Video input connect J202).
2. TP204 & VR204.
3. * Record the color bar signal.
   * Playback the recorded signal.
   * Confirm the playback output.
   (Specified value ; 1.0 ± 0.05Vp-p)
   * If the specified value is not satisfied, repeat 1 to 3 after turning VR204 in the following manner.

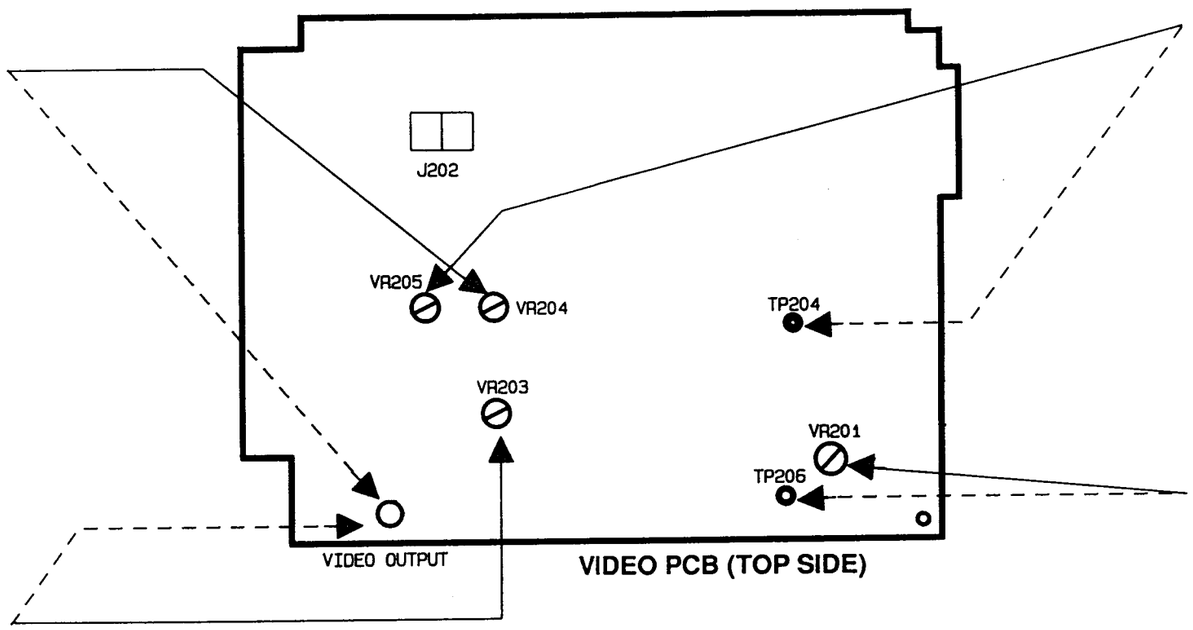


	Rotation direction of VR204
When larger than specified value	Clockwise (↷)
When smaller than specified value	Counterclockwise (↶)

5 PB Y LEVEL

1. "PB", Alignment tape SE2-2.
2. VIDEO out terminal & VR203.
3. * Connect an oscilloscope to video out terminal.
   * Adjust VR203 for 1.0 ± 0.05Vp-p from sync tip to white peak level.



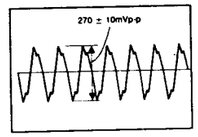


6 Y-FM CARRIER FREQUENCY

1. "REC", No signal input.
2. TP204 & VR205.
3. * Connect frequency probe to TP204.
   * Adjust VR205 so that the frequency is 4.36 ± 0.05MHz.

8 REC Y CURRENT

1. "REC", Color bar signal (Video input connect J202).
2. TP206 & VR201.
3. * Connect an oscilloscope to TP206.
   * Adjust VR201 so that the signal level becomes 270 ± 10mVp-p.



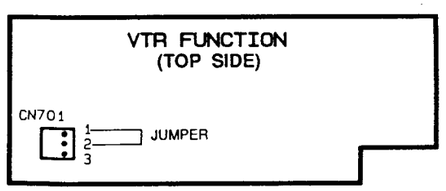
11 APC

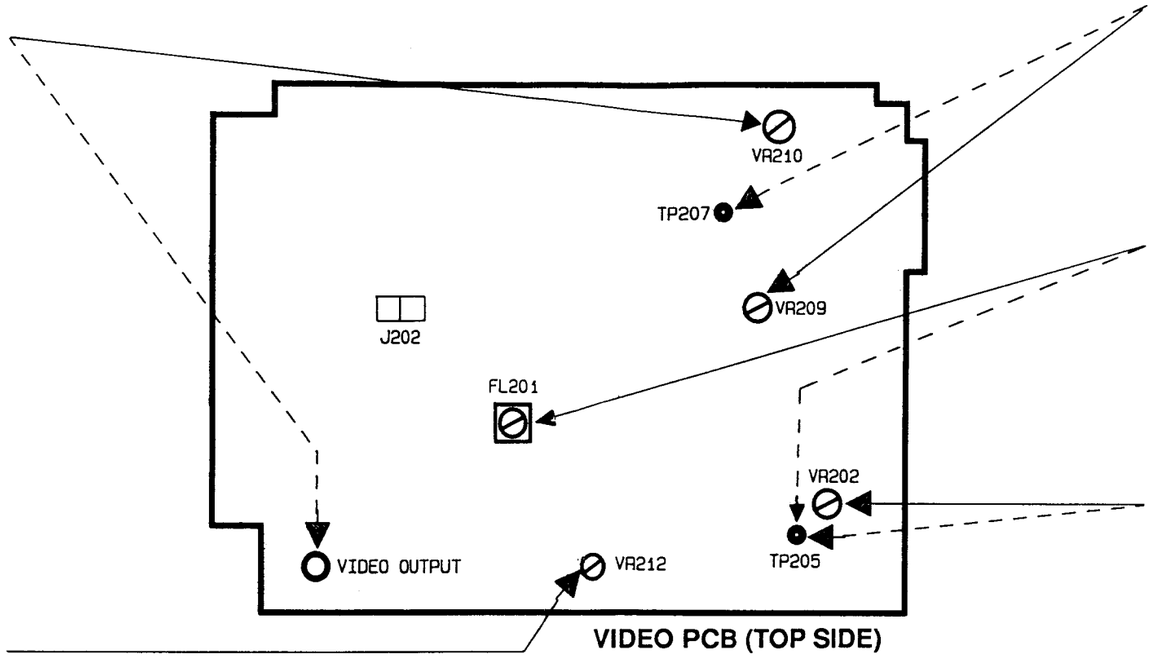
1. "LP-PB", Alignment tape SE2-2L.
2. VIDEO out terminal & VR210.
3. * Set the monitor TV color level to maximum and its bright level to minimum.
   * Connect monitor TV jack to Video out terminal.
   * Adjust VR210 so as to minimize chroma flicker.

13 STILL POSITION

1. "LP Playback with self recording, camera input.
2. TV monitor & VR212.
3. * Recording about 5 minutes on LP position with CAMERA mode.
   * Short-circuit pin 1 and pin 2 of VTR function board CN701 and play the recorded tape. (See Fig.)
   * Adjust VR212 so as to locate the noise bar to under position on the monitor at still mode.

NOTE : Repeat the adjustment until the noise bar is to be located under position as possible.
(still → adjust → still → adjust → ···)

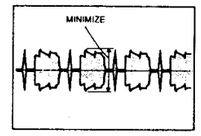




VIDEO PCB (TOP SIDE)

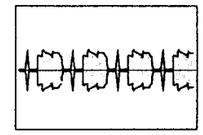
12 COLOR NOISE REDUCTION

1. "PB", Alignment tape SE2-2.
2. TP207 & VR209.
3. * Connect an oscilloscope to TP207.
   * Adjust VR209 so as to minimize the chroma signal level.



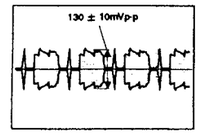
9 CHROMA EMPHASIS fo

1. "REC", Color bar signal (Video input connect J202).
2. TP205 & FL201.
3. * Connect an oscilloscope to TP205.
   * Adjust FL201 so as to minimize amplitude of the chroma signal red flat portion.

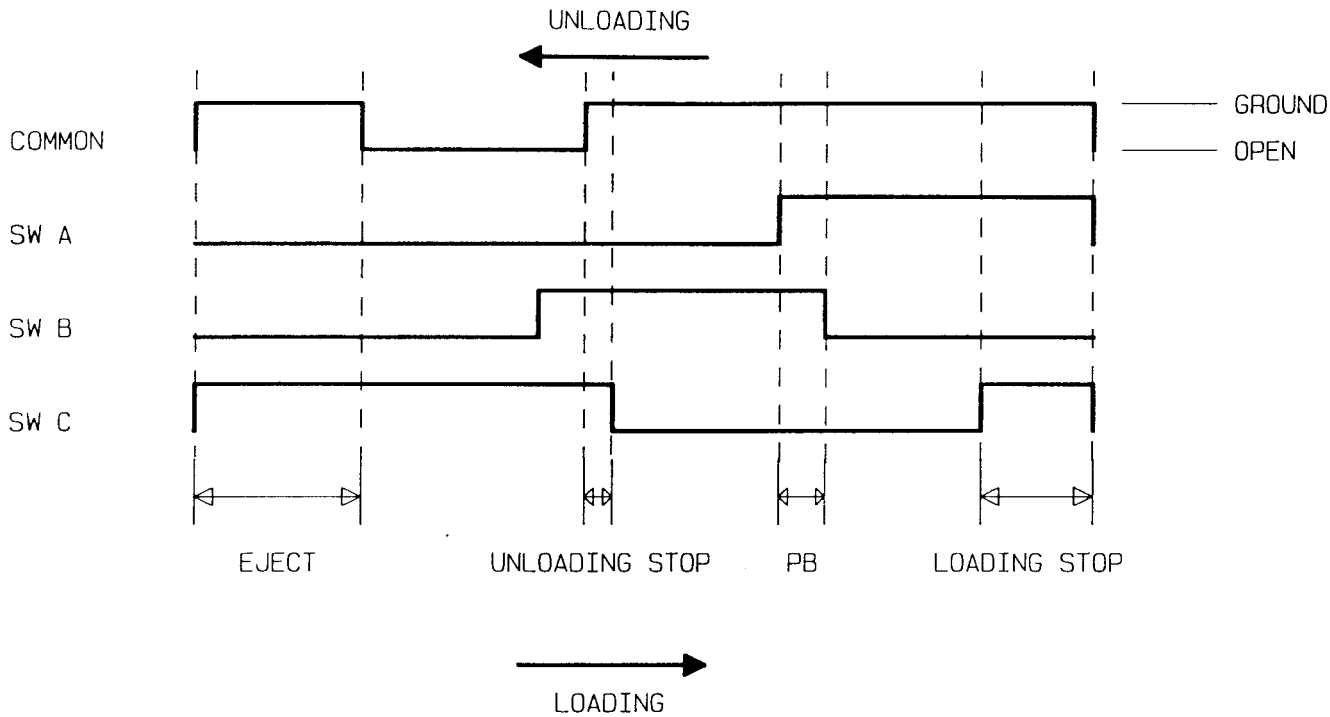


10 REC C CURRENT

1. "REC", Color bar signal (Video input connect J202).
2. TP205 & VR202.
3. * Connect an oscilloscope to TP205.
   * Adjust VR202 so that the red level of the signal becomes 130 ± 10mVp-p.



5-7. PROGRAM SWITCH TIMING CHART



POSITION	SW A	SW B	SW C	MODE
EJECT	H	H	L	EJECT(CASSETTE HOUSING OPEN)
UNLOADING STOP	H	L	L	UNLOADING STOP
LOADING STOP	L	L	H	LOADING STOP
PB	L	H	L	PLAY, FF, REW, REC, STILL, . . .

6. ELECTRICAL PARTS LIST

6-1. GENERAL INFORMATION

1. Parts Replacement

Many electrical and mechanical parts in CAMCORDER have special safety-related characteristics.
These characteristics are often not evident fromvisual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual ; electrical components having such features are identified by ⚠ in the replacement parts lists and schematic diagrams.
The use of a replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

2. Unless otherwise specified :

1) **All resistors are in ohms (Ω)**

- **K** = 1,000
- **M** = 1,000K

2) **All capacitors are in ± 10%, MF = μF.**

* **CC** : PF = uuF, Ceramic, Temp
* **CK** : PK = uuF, Ceramic, MK
* **CS** : Tantalium
* **CQ** : Polyester
* **CE** : Electrolytic

3) **All coils are in microhenry (uH)**

- **1mH** = 1,000uH

3. ASS'Y = Assembly

4. ⚠ Mark : Safety related parts.

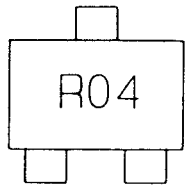
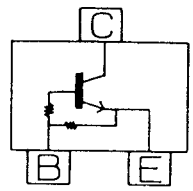
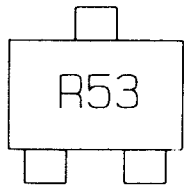
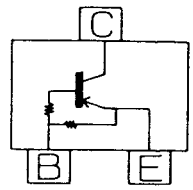
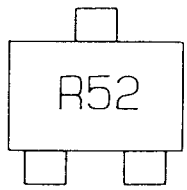
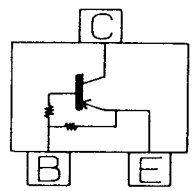
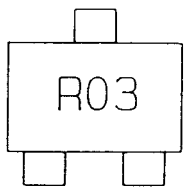
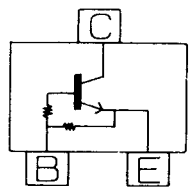
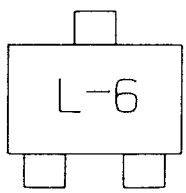
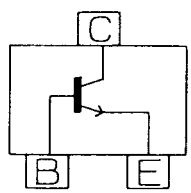
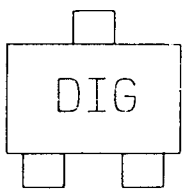
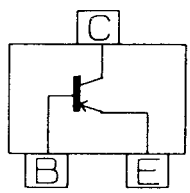
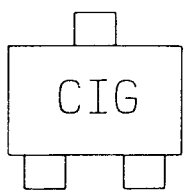
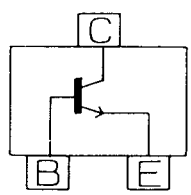
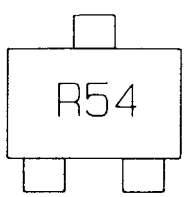
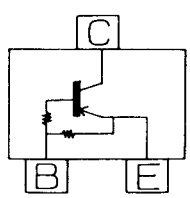
5. How to order replacement parts

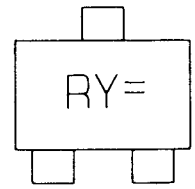
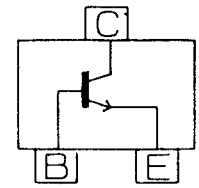
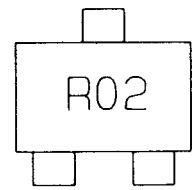
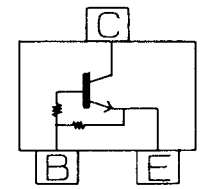
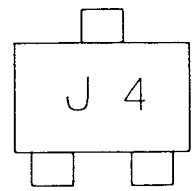
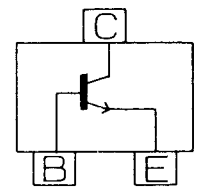
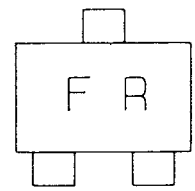
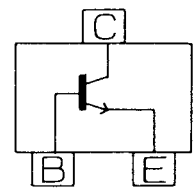
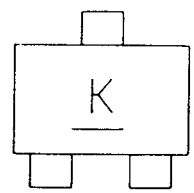
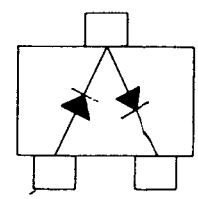
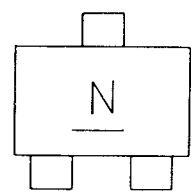
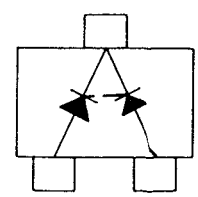
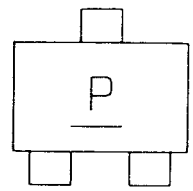
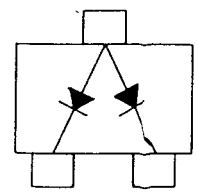
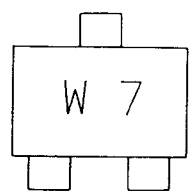
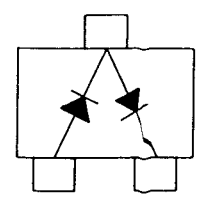
To have your order filed promptly and correctly, please furnish the following informations.

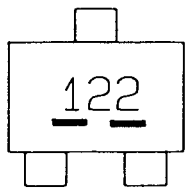
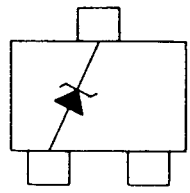
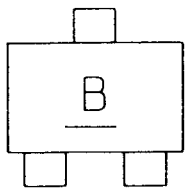
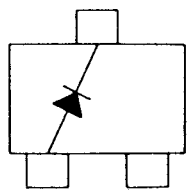
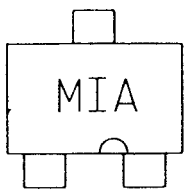
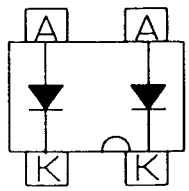
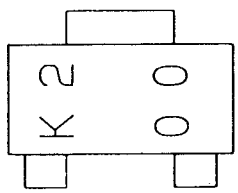
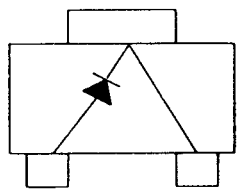
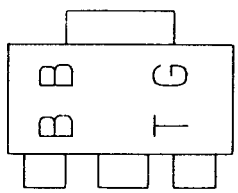
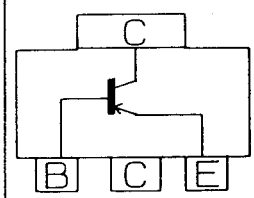
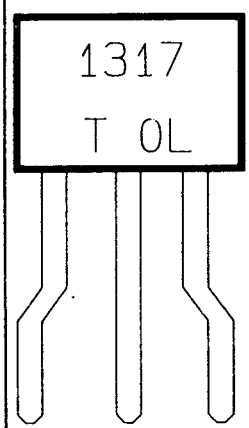
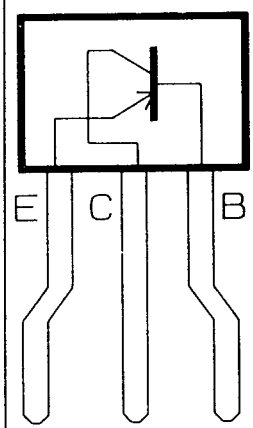
1) Model Number
2) Location Number
3) Part Number
4) Description & Specification

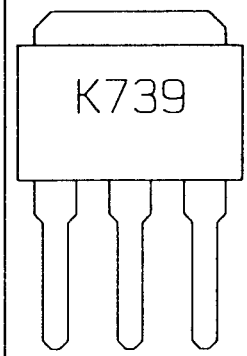
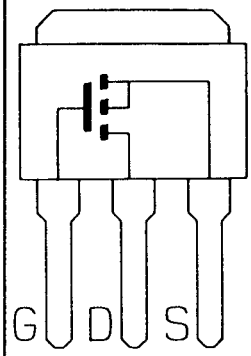
http://www.ManualsCenter.com

6-2. CHIP PARTS LAYOUT AND SPECIFICATION

TYPE	APPEARANCE	INNER PART
TR KSR1104		
TR KSR2103		
TR KSR2102		
TR KSR1103		
TR 2SC2812		
TR KSA812		
TR KSC1623		
TR KSR2104		

TYPE	APPEARANCE	INNER PART
TR 2SC3898		
TR KSR1102		
TR 2SC3142		
TR 2SA1037		
DIODE DA204K		
DIODE DAN202K		
DIODE DAP202K		
DIODE DCC010TA		

TYPE	APPEARANCE	INNER PART
DIODE RD-12M		
DIODE SB05-05CPTB		
DIODE MA159		
DIODE E10QS03-TE12R		
TR 2SB1119 2SB1203 2SB962 2SB1121		
TR 2SA1317		

TYPE	APPEARANCE	INNER PART
TR 2SK739		

6-3. VTR SECTION REPLACEMENT PARTS LIST

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
105	67179-0060-00	BATTERY TERMINAL ASS'Y
PS901	64709-600-107	FUSE-MICRO;TR/MCR-1.5 BUSS
PS902	64709-600-107	FUSE-MICRO;TR/MCR-1.5 BUSS
PS903	64709-600-107	FUSE-MICRO;TR/MCR-1.5 BUSS
112	69063-213-508	ASSY MIC BOARD;S8C-3VTR
C471	61453-131-122	C-CERAMIC.CHIP;0805 5C 102JAT MA
C472	61453-131-101	C-CERAMIC.CHIP;0805 5A 101JAT MA
C473	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C474	61453-130-104	C-CERAMIC.CHIP;0805 5E 104ZAT MA
C475	61453-131-103	C-CERAMIC.CHIP;0805 5C 103KAT MA
C476	61453-130-104	C-CERAMIC.CHIP;0805 5E 104ZAT MA
C477	61453-131-684	C-CERAMIC CHIP;0805 5C 681KAT MA
C478	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C479	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C480	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P
C481	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C482	61453-131-122	C-CERAMIC.CHIP;0805 5C 102JAT MA
CN471	63349-900-030	CONNECTOR-WAFER;CGP1603-0101
CN472	63349-900-010	CONNECTOR;CGP1604-0101
IC471	62119-701-073	IC-FP;LA7293M
J471	63334-104-069	JACK;HSJ1493-01-050 EXT.MIC EAR
Q471	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
R471	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R472	61079-917-561	R-MG.CHIP;RMC 1/10 560-J
R473	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R474	61079-917-272	R-MG.CHIP;RMC 1/10 2.7K-J
R475	61079-917-823	R-MG.CHIP;RMC 1/10 82K-J
R476	61079-917-104	R-MG.CHIP;RMC 1/10 100K-J
R477	61079-917-392	R-MG.CHIP;RMC 1/10 3.9K-J
R478	61079-917-682	R-MG.CHIP;RMC 1/10 6.8K-J
113	69063-213-509	ASSY START/STOP BOARD;S8C-3VTR
C801	61454-243-471	C-ELEC.CHIP;ECE-V0JA470P
CN801	B6010-0403	CONNECTOR-WAFER;CGP1709-0101 WHT
J801	63334-104-069	JACK;HSJ1493-01-050 EXT.MIC EAR
L801	62429-962-124	INDUCTOR-CHIP;NL322522T 1R0-K
L802	62429-962-124	INDUCTOR-CHIP;NL322522T 1R0-K
R801	61079-917-104	R-MG.CHIP;RMC 1/10 100K-J
R802	61079-917-273	R-MG.CHIP;RMC 1/10 27K-J
S801	63519-104-101	SW-KEYBOARD;SKEYAC008A
S802	63519-103-104	SW-SLIDE;SSSS21B51A
W802	63053-916-555	LEAD CONNECTOR ASSY;1061#28
125	69063-213-507	ASSY FUNCTION BOARD;S8C-3VTR
C701	61453-131-103	C-CERAMIC.CHIP;0805 5C 103KAT MA
C702	61453-131-103	C-CERAMIC.CHIP;0805 5C 103KAT MA
CN701	63349-900-002	CONNECTOR-WAFER;CGP1703-0101
R701	61079-916-104	R-MG.CHIP;RMC 1/10 100K-F
R702	61079-916-103	R-MG.CHIP;RMC 1/10 10K-F
R703	61079-916-103	R-MG.CHIP;RMC 1/10 10K-F
R704	A1020-0288	R-CHIP;RH 1/10 CS 123-F C2012 RMC1/10 12K-F
R705	A1020-0363	R-CHIP;RH 1/10 CS 153-F C2012 RMC
R706	A1020-0369	R-CHIP;RH 1/10 CS 183-F C2012 RMC
R707	A1020-0289	R-CHIP;RH 1/10 CS 223-F C2012
R708	61079-916-333	R-MG.CHIP;RMC 1/10 33K-F
R709	A1020-0412	R-CHIP;RH 1/10 CS 683-F C2012 RMC
R710	61079-916-104	R-MG.CHIP;RMC 1/10 100K-F
R711	A1020-0369	R-CHIP;RH 1/10 CS 183-F C2012 RMC
S701	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S702	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S703	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S704	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S705	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S707	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S708	63519-103-103	SW-SLIDE;HSW 1061-01-010
S709	B3006-0028	SW-SLIDE;1C4P SH 2.7V ESD165225
S710	63519-103-104	SW-SLIDE;SSSS21B51A
S711	63519-105-101	SW-TACT.CHIP;SKHMPS066A
S712	63519-105-101	SW-TACT.CHIP;SKHMPS066A
W701	63054-311-035	BANDO CARD;BNCD-P1.0-M-11-35
126	69063-213-799	ASSY MODULE BOARD;S8C-2 VTR
C301	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
R301	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R302	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
RM301	67179-0008-00	REMOCON-MODULE;GP1U561
W301	63053-916-553	LEAD CONNECTOR ASSY;1061 #28 CDP5903-51021 3P
128	69063-213-499	ASSY MAIN BOARD;S8C-3VTR
		SYSTEM CONTROL/SERVO PARTS
C501	61628-309-100	C-TANTAL.CHIP;TAJA 225M 6R3
C502	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
C503	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C504	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C505	61454-153-120	C-CERAMIC CHIP;C1608 CH1H120JT
C506	61454-153-120	C-CERAMIC CHIP;C1608 CH1H120JT
C509	61619-911-010	C-ELEC.CHIP;UWX1H010 MCR2GB PI3 1U/50V
C510	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
C511	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C514	61454-244-471	C-ELEC.CHIP;ECE-V1CA470P
C515	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C516	61647-704-101	C-ELEC;CEAP 16V 100M SS(2.5)
C517	61647-704-101	C-ELEC;CEAP 16V 100M SS(2.5)
C518	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C519	61619-908-479	C-ELEC.CHIP;UWX1C4R7 MCR2GB PI3 4.7U/25V
C520	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C523	61619-908-479	C-ELEC.CHIP;UWX1C4R7 MCR2GB PI3 4.7U/25V
C524	A1100-0046	C-CERAMIC.CHIP;3016F 224Z
C525	A1100-0046	C-CERAMIC.CHIP;3016F 224Z
C526	A1100-0046	C-CERAMIC.CHIP;3016F 224Z
C527	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C528	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C529	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C530	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C531	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C532	61454-247-105	C-ELECTROLYTIC;OS COND 10SC 10M.K
C533	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C534	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C536	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C537	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C538	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C539	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C540	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C541	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C542	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C543	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C544	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C545	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C546	61453-130-041	C-CERAMIC.CHIP;CC3216 Y5U/C 474KB
C547	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C548	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C549	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C550	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C551	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
C552	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C553	61454-155-153	C-CERAMIC CHIP;C1608 B1H 153T-K
C554	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C555	61454-154-471	C-CERAMIC CHIP;C1608 JB1H 471KT
C556	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C557	61454-154-222	C-CERAMIC CHIP;1608 B1H 222KT
C558	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C559	61454-153-221	C-CERAMIC CHIP;C1608 CH1H221JT
C560	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
C561	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C562	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C563	61454-154-561	C-CERAMIC CHIP;C1608 B1H 561KT
C564	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C565	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C566	61454-154-152	C-CERAMIC CHIP;C1608 B1H 152KT
C567	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
C568	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C569	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C602	61454-244-471	C-ELEC.CHIP;ECE-V1CA470P
C603	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C604	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C605	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C606	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C607	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C608	61637-504-221	C-ELEC;CEAP 16V 220M SG(8X11.5)
C609	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C610	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C620	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C621	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CN501	63349-613-100	CONNECTOR-FPC;52085-1080
CN502	A6013-0008	CONNECTOR FPC;00-6200-515-230-000 BRN
CN503	A6013-0005	CONNECTOR FPC;00-6200-511-130-000
CN504	A6013-0007	CONNECTOR FPC;00-6200-513-230-000
CN505	A6013-0005	CONNECTOR FPC;00-6200-511-130-000
CN506	63349-900-009	CONNECTOR;CGP1602-0101
CN507	63349-900-009	CONNECTOR;CGP1602-0101
CN508	A6013-0013	CONNECTOR FPC;00-6200-518-330-000
CN509	A6013-0013	CONNECTOR FPC;00-6200-518-330-000
D501	62169-102-054	DIODE-SHOTTKY.CHIP;E10QS03-TE12R
D502	62169-102-054	DIODE-SHOTTKY.CHIP;E10QS03-TE12R
IC501	67199-0136-00	MICOM;CXP80116-747Q(VP-E807) QFP
IC502	62119-701-079	IC-FP;CXA-1204Q
IC503	B4008-0916	IC-DRIVE;TPIC1327DF SOP
IC504	B4008-0870	IC;LB1851M QFP(TP-T1)
IC505	62119-701-074	IC-FP;LB1631MT
IC506	B4008-0869	IC;LB8110M QFP(TP-T1)
IC507	62119-701-077	IC;S-81350HG
IC508	62119-701-078	IC-FP;SCI7701YTA
IC509	62119-121-011	IC-FP;NJM2904M(TE3)
L501	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L502	A1130-0026	COIL-CHOKE;680UH-K RA 265LY-K5008 Q70
L503	A1130-0026	COIL-CHOKE;680UH-K RA 265LY-K5008 Q70
L504	A1130-0034	COIL-CHOKE;100UH-K RA 8RDB-101K Q35 F1KHZ
L505	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L506	62429-962-331	INDUCTOR-CHIP;NL453232T 331-J
L507	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L509	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L510	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L511	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
PS501	62119-702-004	IC-PROTECTOR;50BV 0.4A ICP-N10/23118132
PS502	62119-702-007	IC-CIRCUIT PROTECTOR;ICP-N20
Q501	62129-101-110	TRANSISTOR.CHIP;KSR 1102 (REEL)
Q502	62139-201-080	TRANSISTOR;2SB 962
Q503	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q504	A4056-0018	TR-SWITCHING,CHIP;DTC114EK 300MW 250MHZ
Q505	62129-301-120	TRANSISTOR.CHIP;2SB 1121(REEL)T-TC
Q506	62129-301-120	TRANSISTOR.CHIP;2SB 1121(REEL)T-TC
Q507	B4050-0070	TRANSISTOR-CHIP;IMH6
Q509	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q510	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q511	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q512	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q513	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
Q514	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q515	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
R501	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R502	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R503	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R504	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R505	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R506	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R507	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R508	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R509	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R510	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R511	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R512	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R513	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R514	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R515	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R516	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R517	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R518	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R519	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R520	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R521	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R522	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R523	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R524	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R525	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R526	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R527	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R528	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R529	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R530	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R531	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R532	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R536	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R537	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R538	61079-918-394	R-MT CHIP;RMC 1/16 390K-J
R539	61079-918-394	R-MT CHIP;RMC 1/16 390K-J
R540	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R541	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R542	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R545	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R546	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R549	61079-918-474	R-MT CHIP;RMC 1/16 470K-J
R550	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R551	61079-918-394	R-MT CHIP;RMC 1/16 390K-J
R552	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R553	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R554	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R555	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R556	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R557	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R558	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R559	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R560	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R561	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
R562	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R563	61079-918-221	R-MT CHIP;RMC 1/16 220-J
R564	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R565	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R566	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R567	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R572	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R573	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
R574	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R576	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R578	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R579	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R580	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R581	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R582	61079-917-010	R-MG.CHIP;RMC 1/10 1R0-J
R583	61079-917-010	R-MG.CHIP;RMC 1/10 1R0-J
R584	61079-917-010	R-MG.CHIP;RMC 1/10 1R0-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
R585	61079-917-010	R-MG.CHIP;RMC 1/10 1R0-J
R586	A1020-0427	R-CHIP;RMC 1/16 CS 4.7-J C1608 RMC 1/16 4.7-J
R587	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R588	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R589	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R590	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
R591	A1020-0427	R-CHIP;RMC 1/16 CS 4.7-J C1608 RMC 1/16 4.7-J
R592	A1020-0427	R-CHIP;RMC 1/16 CS 4.7-J C1608 RMC 1/16 4.7-J
R593	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R594	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R595	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R596	A1020-0451	R-CHIP;RH 1/16 CS 244-J C1608 RMC1/16 240K-J
R597	61079-918-224	R-MT CHIP;RMC 1/16 220K-J
R598	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R599	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R600	61079-918-684	R-MT CHIP;RMC 1/16 680K-J
R601	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R602	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R603	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R604	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R605	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R606	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R607	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
R608	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R609	61079-918-271	R-MT CHIP;RMC 1/16 270-J
R610	61079-918-181	R-MT CHIP;RMC 1/16 180-J
R611	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R612	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R613	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
R614	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R615	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R616	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R617	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R618	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R619	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R620	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R621	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R622	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R623	61079-918-680	R-MT CHIP;RMC 1/16 68-J
R624	61079-918-151	R-MT CHIP;RMC 1/16 150-J
R625	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
R626	61079-918-823	R-MT CHIP;RMC 1/16 82K-J
R627	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R628	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R629	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R630	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R631	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R632	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R633	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R634	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
R635	61079-918-564	R-MT CHIP;RMC 1/16 560K-J
R636	61079-918-394	R-MT CHIP;RMC 1/16 390K-J
R651	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R652	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R663	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R664	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R665	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R666	61079-918-000	R-MT CHIP;RMC 1/16 0-J
VR501	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VR502	61249-922-759	VR-SEMI CHIP;EVM-7JSX30B15
VR503	61249-922-772	VR-SEMI CHIP;EVM-7JSX30B55
W501	63054-318-035	BANDO CARD;BNCD-P1.0-K-18-35
W502	63054-318-035	BANDO CARD;BNCD-P1.0-K-18-35
W503	63053-916-407	LEAD CON ASSY;1061 #28 CDP5909-CGP1209 9P
W504	63053-916-408	LEAD CON ASSY;1061 #28 CDP5910-CGP1210 10P
X501	B1280-0078	CRYSTAL;16MHZ HC-49/U-S 50PPM
X502	B1280-0080	CRYSTAL;5.859375MHZ HC-49/U-S 50PPM

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
		AUDIO PARTS
C431	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C432	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P
C433	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C434	61619-908-479	C-ELEC.CHIP;UWX1C4R7 MCR2GB PI3 4.7U/25V
C435	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P
C436	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C437	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C438	61454-243-101	C-ELEC.CHIP;ECE-V0JA101P
C439	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C440	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C441	61454-243-471	C-ELEC.CHIP;ECE-V0JA470P
C442	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C443	61454-157-333	C-CERAMIC CHIP;C1608 B1C 333T-K
C444	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C445	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C446	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C447	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C448	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
C449	61454-153-221	C-CERAMIC CHIP;C1608 CH1H221JT
C450	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C451	61454-243-471	C-ELEC.CHIP;ECE-V0JA470P
C452	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C453	61454-154-222	C-CERAMIC CHIP;1608 B1H 222KT
C454	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C455	61619-911-010	C-ELEC.CHIP;UWX1H010 MCR2GB PI3 1U/50V
C456	61619-908-479	C-ELEC.CHIP;UWX1C4R7 MCR2GB PI3 4.7U/25V
C457	61454-153-221	C-CERAMIC CHIP;C1608 CH1H221JT
C458	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C465	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
IC431	B4000-0028	IC-ROM;LA7454W QFP
R431	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
R432	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
R433	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R434	61079-918-123	R-MT CHIP;RMC 1/16 12K-J
R435	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R436	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R437	61079-918-155	R-MT CHIP;RMC 1/16 1.5M-J
R438	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R439	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R440	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R441	61079-917-620	R-MG.CHIP;RMC 1/10 62-J
R442	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R443	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R444	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R445	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R446	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
VR431	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VR432	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
		PRE-AMP PARTS
C101	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C102	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C103	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C104	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C105	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C106	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C107	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C108	61454-153-181	C-CERAMIC CHIP;C1608 CH1H181JT
C109	61454-154-222	C-CERAMIC CHIP;1608 B1H 222KT
C110	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
C111	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C112	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C113	A1100-0017	C-CERAMIC.CHIP;2012F 104Z
C114	A1100-0017	C-CERAMIC.CHIP;2012F 104Z
C115	A1100-0017	C-CERAMIC.CHIP;2012F 104Z
C116	A1100-0017	C-CERAMIC.CHIP;2012F 104Z
C117	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C118	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C119	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
C123	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
C124	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C125	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C126	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C131	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C132	61454-153-151	C-CERAMIC CHIP;C1608 CH1H151JT
C133	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C134	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C135	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C136	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C138	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C139	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C140	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C141	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C145	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
C148	61454-154-681	C-CERAMIC CHIP;C1608 B1H 681KT
C149	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C160	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
C161	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
C162	61454-154-471	C-CERAMIC CHIP;C1608 JB1H 471KT
C163	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C165	B1106-0154	C-TANTALUM,CHIP;TMCMB0J226MTR(7V/22U)
CN101	66049-0014-00	CONNECTOR-FPC;SFR14R-1STE1
IC101	62119-121-033	IC-FP;CXA1202R-T3
L101	62429-962-080	INDUCTOR-CHIP;NL453232T 100-J
L102	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
L103	62429-961-104	INDUCTOR-CHIP;LQH3N 100-K
L104	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
L105	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
L106	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
L107	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
Q102	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q108	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q109	62129-301-123	TRANSISTOR.CHIP;2SC 2412
Q110	62129-301-123	TRANSISTOR.CHIP;2SC 2412
Q111	62129-301-121	TRANSISTOR.CHIP;2SA 1037K-QRS(T96)
Q112	62129-301-121	TRANSISTOR.CHIP;2SA 1037K-QRS(T96)
Q113	62129-301-121	TRANSISTOR.CHIP;2SA 1037K-QRS(T96)
Q114	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q116	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q117	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
R102	61079-918-154	R-MT CHIP;RMC 1/16 150K-J
R103	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R104	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R106	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R110	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R113	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
R114	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R115	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R116	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R117	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R118	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R119	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R120	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R121	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R122	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
R123	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R124	61079-918-330	R-MT CHIP;RMC 1/16 33-J
R125	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R126	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R127	61079-918-271	R-MT CHIP;RMC 1/16 270-J
R128	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R129	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R130	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R131	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R132	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R133	61079-918-560	R-MT CHIP;RMC 1/16 56-J
R134	61079-918-271	R-MT CHIP;RMC 1/16 270-J
R135	61079-918-271	R-MT CHIP;RMC 1/16 270-J
R136	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R137	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R138	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R139	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R140	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R141	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R143	61079-918-823	R-MT CHIP;RMC 1/16 82K-J
R151	61079-918-154	R-MT CHIP;RMC 1/16 150K-J
R152	61079-918-330	R-MT CHIP;RMC 1/16 33-J
R157	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R158	61079-918-391	R-MT CHIP;RMC 1/16 390-J
R160	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R161	61079-918-330	R-MT CHIP;RMC 1/16 33-J
R162	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
VR101	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VR102	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54

****

129	69063-213-500	ASSY VIDEO BOARD;S8C-3VTR
C201	61647-303-100	C-ELEC;CEAP 10V 10M NS(2.5)
C204	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C205	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C206	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C207	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C208	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C209	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C210	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C211	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C212	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C213	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C215	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C216	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C217	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C218	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C219	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C220	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C221	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C222	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C223	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C224	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C225	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C230	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C231	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C232	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C233	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C234	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C235	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C236	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C237	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C238	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C239	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C240	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C242	61647-303-100	C-ELEC;CEAP 10V 10M NS(2.5)
C243	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C244	61454-153-560	C-CERAMIC CHIP;C1608 CH1H560JT
C245	61454-153-271	C-CERAMIC CHIP;C1608 CH1H271JT
C246	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C247	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C248	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
C249	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C250	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C251	61454-153-180	C-CERAMIC CHIP;C1608 CH1H180JT
C252	61454-154-471	C-CERAMIC CHIP;C1608 JB1H 471KT
C253	61454-153-391	C-CERAMIC CHIP;C1608 JB1H 391KT
C254	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C255	61454-154-471	C-CERAMIC CHIP;C1608 JB1H 471KT
C256	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C257	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C258	61454-153-151	C-CERAMIC CHIP;C1608 CH1H151JT
C259	61454-153-181	C-CERAMIC CHIP;C1608 CH1H181JT
C260	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C261	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
C270	61454-153-151	C-CERAMIC CHIP;C1608 CH1H151JT
C271	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C272	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C273	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
C274	61453-130-061	C-CERAMIC.CHIP;0805 5A 6R0DAT MA
C275	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C276	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C277	61454-153-271	C-CERAMIC CHIP;C1608 CH1H271JT
C278	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C279	61454-156-273	C-CERAMIC CHIP;C1608 JB1C 273KT
C280	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C281	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C282	61454-153-331	C-CERAMIC CHIP;C1608 CH1H331JT
C283	61454-153-151	C-CERAMIC CHIP;C1608 CH1H151JT
C284	61454-153-120	C-CERAMIC CHIP;C1608 CH1H120JT
C285	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C302	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C303	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C304	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C305	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C306	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C307	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C308	61454-153-391	C-CERAMIC CHIP;C1608 JB1H 391KT
C309	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C310	A1100-0089	C-CERAMIC.CHIP;2012C 030J
C311	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C312	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C313	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C314	B1106-0016	C-TANTALUM.CHIP;TAJB106M010R
C315	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C316	61454-252-111	C-CERAMIC.CHIP;0805 5A 111JAT MA
C317	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C318	B1106-0014	C-TANTALUM.CHIP;TAJA225M010R
C319	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C320	61454-153-391	C-CERAMIC CHIP;C1608 JB1H 391KT
C321	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
C322	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C323	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C324	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C325	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C326	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C327	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
C331	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C332	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C333	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C334	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C335	61454-153-820	C-CERAMIC CHIP;C1608 CH1H820JT
C336	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C338	61454-153-390	C-CERAMIC CHIP;C1608 CH1H390JT
C339	61454-153-150	C-CERAMIC CHIP;C1608 CH1H150JT
C340	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C341	61454-153-181	C-CERAMIC CHIP;C1608 CH1H181JT
C342	61453-131-751	C-CERAMIC.CHIP;0805 5A 750JAT MA
C343	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C344	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C345	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C347	61454-154-222	C-CERAMIC CHIP;1608 B1H 222KT
C348	61454-153-330	C-CERAMIC CHIP;C1608 CH1H330JT
C349	61454-153-271	C-CERAMIC CHIP;C1608 CH1H271JT
C351	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
C352	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C353	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C354	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C355	61454-153-120	C-CERAMIC CHIP;C1608 CH1H120JT
C356	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
C357	61454-155-223	C-CERAMIC CHIP;C1608 JB1C 223KT
C358	61454-153-330	C-CERAMIC CHIP;C1608 CH1H330JT
C359	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C360	61454-153-151	C-CERAMIC CHIP;C1608 CH1H151JT
C361	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C362	61454-154-471	C-CERAMIC CHIP;C1608 JB1H 471KT
C370	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C371	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C372	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C373	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C374	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C375	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
C376	61619-911-229	C-ELEC.CHIP;UWX1H2R2 MCR2GB PI3 2.2U/50V
C377	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C378	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C379	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C380	61454-243-471	C-ELEC.CHIP;ECE-V0JA470P
C381	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C382	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C383	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
C384	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
C385	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C386	61454-243-471	C-ELEC.CHIP;ECE-V0JA470P
C387	61454-153-180	C-CERAMIC CHIP;C1608 CH1H180JT
C401	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C402	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C403	61454-243-221	C-ELEC.CHIP;ECE-V0JA220R
C404	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
C405	61454-242-221	C-ELEC.CHIP;ECE-V0GA221P
C406	61454-242-221	C-ELEC.CHIP;ECE-V0GA221P
C407	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C408	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C409	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
C410	61454-153-330	C-CERAMIC CHIP;C1608 CH1H330JT
C412	61454-153-330	C-CERAMIC CHIP;C1608 CH1H330JT
C413	61454-153-330	C-CERAMIC CHIP;C1608 CH1H330JT
C414	61619-908-011	C-ELEC.CHIP;UWX1C100 MCR2GB PI3 10U/16V
C415	B1106-0016	C-TANTALUM.CHIP;TAJB106M010R
C416	A1100-0047	C-CERAMIC.CHIP;2012B 272K
C417	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
C418	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C419	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
C420	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C421	61454-154-562	C-CERAMIC CHIP;C1608 B1H 562KT
C422	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
C423	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
C424	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
C425	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CN201	A6013-0013	CONNECTOR FPC;00-6200-518-330-000
CN202	A6013-0013	CONNECTOR FPC;00-6200-518-330-000
CN255	B6013-0051	CONNECTOR-FPC;52030-0410 WHT
D201	62169-901-062	DIODE.CHIP;DCC010TA-F
D202	62169-901-093	DIODE.CHIP;MA159-(TX)
D203	62169-901-062	DIODE.CHIP;DCC010TA-F
D205	62169-901-095	DIODE-CHIP;DAN202K (T96)
D206	62169-901-095	DIODE-CHIP;DAN202K (T96)
D207	62169-901-062	DIODE.CHIP;DCC010TA-F
D401	62169-901-095	DIODE-CHIP;DAN202K (T96)
DL201	62469-030-028	DELAY LINE;ADL-CF2544E
FL201	64529-632-106	FILTER CHIP;A353BCH-K5058ESAR
FL202	64529-632-104	FILTER CHIP;TH353TCI-K5059DFES
FL203	64529-632-105	FILTER CHIP;H354BAI-K5060EJD
FL204	64529-310-052	FILTER-CERAMIC;SFE 5.17 MBF
IC201	62119-121-032	IC-FP;CXA1201BQ-T3
IC202	62119-121-015	IC;CXL1502-T1
IC203	62119-121-031	IC-FP;CXA1200BQ
IC204	62119-121-014	IC;CXA1203N-T3
IC205	B4008-0893	IC;MB90075PF-113 SOP
IC206	62119-701-072	IC-FP;NJM-2229M(TE2)
J201	63334-104-073	JACK ASSY-A/V OUT;RCA/DC OUT
J202	63349-604-120	CONNECTOR WAFER;53014-0210
J203	63349-604-120	CONNECTOR WAFER;53014-0210
L201	62429-961-104	INDUCTOR-CHIP;LQH3N 100-K
L202	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L203	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L204	62429-962-561	INDUCTOR-CHIP;NL322522T 560-J
L205	62429-962-330	INDUCTOR-CHIP;NL322522T 330-J
L206	62429-962-180	INDUCTOR CHIP;NL322522T 18-J
L207	62429-962-391	INDUCTOR-CHIP;NL322522T 390-J
L208	62429-962-152	INDUCTOR-CHIP;NL322522T 151-J
L211	62429-962-221	INDUCTOR.CHIP;NL322522 220-J
L212	62429-961-104	INDUCTOR-CHIP;LQH3N 100-K
L213	62429-962-151	INDUCTOR-CHIP;NL322522T 150-J
L301	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L302	62429-962-102	INDUCTOR-CHIP;NL322522T 101-J

http://www.ManualsCenter.com

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
L303	62429-962-152	INDUCTOR-CHIP;NL322522T 151-J
L304	62429-962-331	INDUCTOR-CHIP;NL453232T 331-J
L305	62429-962-121	INDUCTOR-CHIP;NL322522T 121-J
L306	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L307	62429-962-471	INDUCTOR-CHIP;NL453232T 471-J
L308	62429-962-331	INDUCTOR-CHIP;NL453232T 331-J
L309	62429-962-181	INDUCTOR-CHIP;NL322522T 181-J
L310	62429-962-181	INDUCTOR-CHIP;NL322522T 181-J
L311	62429-962-561	INDUCTOR-CHIP;NL322522T 560-J
L312	62429-962-100	INDUCTOR-CHIP;NL322522T 100-J
L313	62429-962-821	INDUCTOR-CHIP;NL322522T 820-J
L314	62429-962-331	INDUCTOR-CHIP;NL453232T 331-J
L315	62429-962-827	INDUCTOR-CHIP;NL322522T 8R2-K
L320	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L321	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
L325	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L326	62429-961-474	INDUCTOR-CHIP;LQH3N 470-K
L327	62429-962-391	INDUCTOR-CHIP;NL322522T 390-J
L328	62429-961-104	INDUCTOR-CHIP;LQH3N 100-K
Q201	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q202	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q203	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q204	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q205	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q206	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q207	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q208	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q209	62129-301-109	TRANSISTOR.CHIP;KSR 2103-(REEL)
Q210	62129-301-116	TRANSISTOR.CHIP;2SC 3142(REEL)
Q211	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q212	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q213	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q214	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q215	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q220	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q221	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q222	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q223	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q224	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q225	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q226	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q227	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q228	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q229	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q230	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q231	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q232	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q233	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q234	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q235	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q236	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q301	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q302	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q303	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q304	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q305	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q306	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q307	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q308	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q309	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q310	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q311	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q312	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q313	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q314	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q315	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q316	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q317	62129-301-115	TRANSISTOR.CHIP;2SB 1119(REEL)T-TC
Q318	62129-301-062	TRANSISTOR.CHIP;2SC 2714-Y(TE85L)
Q319	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q320	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q321	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q322	62129-301-115	TRANSISTOR.CHIP;2SB 1119(REEL)T-TC

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
Q401	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q402	62129-301-114	TRANSISTOR.CHIP;2SC 3898(REEL)-TA
Q403	62129-301-114	TRANSISTOR.CHIP;2SC 3898(REEL)-TA
Q404	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q405	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q406	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
Q408	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q409	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q411	62129-301-114	TRANSISTOR.CHIP;2SC 3898(REEL)-TA
Q412	62129-301-114	TRANSISTOR.CHIP;2SC 3898(REEL)-TA
Q413	62129-301-114	TRANSISTOR.CHIP;2SC 3898(REEL)-TA
R201	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R202	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R203	61079-918-390	R-MT CHIP;RMC 1/16 39-J
R204	61079-918-390	R-MT CHIP;RMC 1/16 39-J
R205	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R206	61079-918-339	R-MT CHIP;RMC 1/16 3R3-J
R207	61079-918-562	R-MT CHIP;RMC 1/16 5.6K-J
R208	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R209	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R210	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R211	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R212	61048-277-332	R-METAL FILM;RM 1/4T 3.3K-J
R213	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R214	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R215	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R216	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R218	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
R219	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R220	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R221	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
R222	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R223	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R224	61079-918-390	R-MT CHIP;RMC 1/16 39-J
R225	61079-918-390	R-MT CHIP;RMC 1/16 39-J
R226	61079-918-221	R-MT CHIP;RMC 1/16 220-J
R227	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R228	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R230	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R231	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R232	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R233	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R234	61079-918-101	R-MT CHIP;RMC 1/16 100-J
R235	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R236	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R237	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R238	61079-918-101	R-MT CHIP;RMC 1/16 100-J
R239	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R240	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R241	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R242	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R243	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R244	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R245	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
R249	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R250	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R251	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R252	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R253	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R254	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R255	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R256	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R257	61079-918-680	R-MT CHIP;RMC 1/16 68-J
R258	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
R259	61079-918-680	R-MT CHIP;RMC 1/16 68-J
R260	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R261	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R262	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R263	61079-918-182	R-MT CHIP;RMC 1/16 1.8K-J
R264	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R265	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R266	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R267	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
R268	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R269	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R270	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R271	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R272	61079-918-681	R-MT CHIP;RMC 1/16 680-J
R273	61079-918-182	R-MT CHIP;RMC 1/16 1.8K-J
R274	61079-918-221	R-MT CHIP;RMC 1/16 220-J
R275	61079-918-681	R-MT CHIP;RMC 1/16 680-J
R276	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R277	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R280	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R281	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R282	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R283	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R284	61079-918-101	R-MT CHIP;RMC 1/16 100-J
R285	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R286	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R287	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R288	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R289	61079-918-121	R-MT CHIP;RMC 1/16 120-J
R290	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
R291	61048-277-332	R-METAL FILM;RM 1/4T 3.3K-J
R292	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
R298	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
R299	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R300	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R301	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R302	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R303	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R304	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R305	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R306	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R307	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
R308	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R309	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
R310	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R311	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R312	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R313	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R314	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R315	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R316	61079-918-562	R-MT CHIP;RMC 1/16 5.6K-J
R317	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
R318	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R319	61079-918-681	R-MT CHIP;RMC 1/16 680-J
R320	61079-918-474	R-MT CHIP;RMC 1/16 470K-J
R321	61079-918-474	R-MT CHIP;RMC 1/16 470K-J
R322	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R323	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R324	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R326	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R328	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R329	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R330	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R331	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
R332	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R333	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R334	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R335	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R336	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R337	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R338	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R339	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R340	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R341	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R342	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R343	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
R344	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R345	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R346	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R347	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R348	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R349	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
R350	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R351	61079-918-121	R-MT CHIP;RMC 1/16 120-J
R352	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R353	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R354	61079-918-563	R-MT CHIP;RMC 1/16 56K-J
R355	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R356	61079-918-683	R-MT CHIP;RMC 1/16 68K-J
R357	61079-918-684	R-MT CHIP;RMC 1/16 680K-J
R358	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
R359	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R360	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R361	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R362	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R363	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R364	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R365	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R366	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R367	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R368	61079-918-331	R-MT CHIP;RMC 1/16 330-J
R369	61079-918-561	R-MT CHIP;RMC 1/16 560-J
R370	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R371	61079-918-121	R-MT CHIP;RMC 1/16 120-J
R372	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R373	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
R374	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
R375	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R376	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R377	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
R378	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R379	61079-918-221	R-MT CHIP;RMC 1/16 220-J
R380	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R381	61079-918-562	R-MT CHIP;RMC 1/16 5.6K-J
R382	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R383	61079-918-221	R-MT CHIP;RMC 1/16 220-J
R384	61079-918-821	R-MT CHIP;RMC 1/16 820-J
R385	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R386	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R387	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R388	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R389	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R390	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R391	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R392	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R393	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
R394	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R395	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R396	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R397	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R398	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
R399	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R400	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R401	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R402	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R403	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R404	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
R405	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R406	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
R407	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R411	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
R412	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
R413	61079-918-683	R-MT CHIP;RMC 1/16 68K-J
R414	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R415	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
R416	61079-918-471	R-MT CHIP;RMC 1/16 470-J
R417	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R418	61079-918-680	R-MT CHIP;RMC 1/16 68-J
R419	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
R420	61079-918-151	R-MT CHIP;RMC 1/16 150-J
R421	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R422	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R423	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R424	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
R425	61079-918-333	R-MT CHIP;RMC 1/16 33K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
R426	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R427	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
R428	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
R429	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
VC401	61829-302-701	C-TRIMMER.CHIP;TZB04P300BA 006
VR201	61249-922-767	VR-SEMI.CHIP;EVM-7JSX30BE3
VR202	61249-922-771	VR-SEMI CHIP;EVM-7JSX30B52
VR203	61249-922-757	VR-SEMI CHIP;EVM-7JSX30B13
VR204	61249-922-767	VR-SEMI.CHIP;EVM-7JSX30BE3
VR205	61249-922-763	VR-SEMI CHIP;EVM-7JSX30B53
VR206	61249-922-767	VR-SEMI.CHIP;EVM-7JSX30BE3
VR207	61249-922-758	VR-SEMI CHIP;EVM-7JSX30B14
VR208	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VR209	61249-922-763	VR-SEMI CHIP;EVM-7JSX30B53
VR210	61249-922-758	VR-SEMI CHIP;EVM-7JSX30B14
VR211	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VR212	61249-922-759	VR-SEMI CHIP;EVM-7JSX30B15
W220	63053-917-552	LEAD CONNECTOR ASSY;1533 #28 51004-5295 2P
W221	63053-916-572	LEAD CON ASSY;1061 #28 CDP5910-51021 12PIN
X201	B1280-0077	CRYSTAL;4.433619MHZ HC-49/U-S 20PPM
X202	64539-012-534	CRYSTAL;HC-49/U-S(17.735)
X203	64539-102-342	CERAMIC-RESONATOR;CSB-503F2

****

130	69063-213-502	ASSY DC/DC CONVERTER;S8C-3VTR
C901	A1100-0018	C-CERAMIC.CHIP;2012B 222-K
C902	A1100-0018	C-CERAMIC.CHIP;2012B 222-K
C903	A1100-0018	C-CERAMIC.CHIP;2012B 222-K
C904	61647-704-101	C-ELEC;CEAP 16V 100M SS(2.5)
C905	61619-911-010	C-ELEC.CHIP;UWX1H010 MCR2GB PI3 1U/50V
C906	61453-130-683	C-CERAMIC.CHIP;0805 5C 682KAT MA
C907	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C908	61647-704-101	C-ELEC;CEAP 16V 100M SS(2.5)
C910	61453-130-474	C-CERAMIC.CHIP;0805 5C 473MAT 050M
C911	A1100-0044	C-CERAMIC.CHIP;2012B 223K
C912	61453-131-221	C-CERAMIC.CHIP;0805 5A 221JAT MA
C913	A1100-0018	C-CERAMIC.CHIP;2012B 222-K
C914	61453-131-221	C-CERAMIC.CHIP;0805 5A 221JAT MA
C915	A1100-0013	C-CERAMIC.CHIP;2012B 102J
C916	A1100-0018	C-CERAMIC.CHIP;2012B 222-K
C917	61454-247-105	C-ELECTROLYTIC;OS COND 10SC 10M.K
C918	61609-144-230	C-ELECTROLYTIC;CE04W 10V 82M(SS)
C919	61453-130-041	C-CERAMIC.CHIP;CC3216 Y5U/C 474KB
C920	61454-247-105	C-ELECTROLYTIC;OS COND 10SC 10M.K
C921	61454-244-471	C-ELEC.CHIP;ECE-V1CA470P
C922	61454-244-471	C-ELEC.CHIP;ECE-V1CA470P
C923	61454-244-471	C-ELEC.CHIP;ECE-V1CA470P
C924	61453-131-221	C-CERAMIC.CHIP;0805 5A 221JAT MA
C925	61454-243-220	C-ELEC.CHIP;ECE-V1CA220P
C926	61454-243-100	C-ELEC.CHIP;ECE-V1HA100P
C927	61454-243-100	C-ELEC.CHIP;ECE-V1HA100P
C928	61454-247-335	C-ELECTROLYTIC;OS COND 25SC 3R3M.K
C929	61619-904-017	C-ELEC.CHIP;ECE-V1EV330SP
C930	61619-908-479	C-ELEC.CHIP;UWX1C4R7 MCR2GB PI3 4.7U/25V
CN901	63349-900-004	CONNECTOR;CGP1705-0101
CN902	B6010-0408	CONNECTOR-WAFER;CGP1710-0101 WHT
D904	62169-102-054	DIODE-SHOTTKY.CHIP;E10QS03-TE12R
D905	62169-901-095	DIODE-CHIP;DAN202K (T96)
D906	62169-901-095	DIODE-CHIP;DAN202K (T96)
D907	62169-901-103	DIODE CHIP;IMN10(T108)
IC901	62119-701-055	IC-FP;TL1451CNSL TAPG
L901	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L902	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L903	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L904	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L905	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L906	62429-961-126	INDUCTOR-CHIP;LQH3N 1.0-M
L907	61454-250-106	COIL CHOKE;262LY-K5006
L908	61454-250-106	COIL CHOKE;262LY-K5006
L909	A1130-0032	COIL-CHOKE;22UH-M RA 8RDB-220M Q30 F1KHZ
L910	A1130-0033	COIL-CHOKE;47UH-K RA 8RDB-470K Q30 F1KHZ
L911	A1130-0033	COIL-CHOKE;47UH-K RA 8RDB-470K Q30 F1KHZ
L912	A1130-0033	COIL-CHOKE;47UH-K RA 8RDB-470K Q30 F1KHZ
L913	62429-961-223	INDUCTOR-CHIP;LQH3N 221-K
L914	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
L915	A1130-0033	COIL-CHOKE;47UH-K RA 8RDB-470K Q30 F1KHZ
L916	A1130-0033	COIL-CHOKE;47UH-K RA 8RDB-470K Q30 F1KHZ
Q901	62129-101-173	TRANSISTOR.CHIP;KSR 1104(REEL)
Q902	62129-101-130	TRANSISTOR.CHIP;KSR 2102 (REEL)
Q903	62129-301-109	TRANSISTOR.CHIP;KSR 2103-(REEL)
Q907	62129-301-104	TRANSISTOR.CHIP;KSR 1103(REEL)
Q908	62149-201-016	TRANSISTOR;2SB 1203S
Q909	62129-301-117	TRANSISTOR.CHIP;2SC 2812(REEL)L6-TA
Q910	62129-301-120	TRANSISTOR.CHIP;2SB 1121(REEL)T-TC
Q911	62129-301-109	TRANSISTOR.CHIP;KSR 2103-(REEL)
Q912	62129-301-104	TRANSISTOR.CHIP;KSR 1103(REEL)
Q913	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
Q914	B4054-0027	FET;2SK739-Z-V1 20W 8A 60V MOS/N-CHANNEL T
Q915	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
R901	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R902	61079-917-223	R-MG.CHIP;RMC 1/10 22K-J
R903	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R904	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R905	61079-917-221	R-MG.CHIP;RMC 1/10 220-J
R906	61079-917-124	R-MG.CHIP;RMC 1/10 120K-J
R907	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R908	61079-917-393	R-MG.CHIP;RMC 1/10 39K-J
R913	61079-917-392	R-MG.CHIP;RMC 1/10 3.9K-J
R914	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R915	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R916	61079-917-124	R-MG.CHIP;RMC 1/10 120K-J
R917	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R918	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R919	61079-917-122	R-MG.CHIP;RMC 1/10 1.2K-J
R920	61079-917-121	R-MG.CHIP;RMC 1/10 120-J
R921	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R922	61079-917-272	R-MG.CHIP;RMC 1/10 2.7K-J
R923	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R924	61079-917-223	R-MG.CHIP;RMC 1/10 22K-J
R925	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R926	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R927	61079-917-473	R-MG.CHIP;RMC 1/10 47K-J
R928	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R929	61079-917-271	R-MG.CHIP;RMC 1/10 270-J
R930	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R931	61079-917-100	R-MG.CHIP;RMC 1/10 10-J
R932	61079-917-333	R-MG.CHIP;RMC 1/10 33K-J
R933	61079-917-272	R-MG.CHIP;RMC 1/10 2.7K-J
R934	61079-917-122	R-MG.CHIP;RMC 1/10 1.2K-J
T901	62869-190-311	COIL-CONVERTER;SAGAMI 006947041A
VR902	61249-922-757	VR-SEMI CHIP;EVM-7JSX30B13
VR903	61249-922-757	VR-SEMI CHIP;EVM-7JSX30B13
W901	63053-916-422	LEAD CONNECTOR ASSY;1061#28 CDP5908-51021 8P

6-4. CAMERA SECTION REPLACEMENT PARTS LIST

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
142	69063-213-690	ASSY DRIVE BOARD;S8C-3 CAM
BD01	62429-014-337	CHIP-FERRITE BEAD;HF50ACB322513-T
CD01	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD02	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CD03	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD04	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CD05	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CD07	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CD08	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CD09	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD10	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD11	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD12	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD13	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD14	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD15	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CD16	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD18	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD19	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD20	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
CD21	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD22	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CD23	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD24	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD25	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
CD26	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
CD27	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CD28	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD30	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CD31	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD32	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CD33	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD34	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CD35	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CD36	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CD38	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CD39	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD41	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CD42	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CD43	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD44	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CD46	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD47	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CD48	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CD50	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CD51	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CD52	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CND01	B6013-0040	CONNECTOR-FPC;52205-2390 WHT
DD01	62169-901-077	DIODE.CHIP;MA110-(TX)
ICD01	B4014-0007	IC-CCD;TCD 5251D DIP
ICD02	B4008-0898	IC;CXD-1250N SOP CCD DRIVER
ICD03	B4004-0039	IC-LOGIC;TC6070AU DFP
ICD04	62119-701-105	IC-FP;CXA1390R/AR-T3
ICD05	B4004-0040	IC-LOGIC;TC74AC 04FN SOP
LD01	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LD02	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LD03	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LD04	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LD05	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
LD06	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
LD07	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
LD08	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
QD01	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QD02	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QD03	62139-601-657	FET;2SK 300-3(T7)
QD04	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
RD01	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD02	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD03	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD04	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD05	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD06	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
RD08	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RD09	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RD10	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RD11	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RD12	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
RD13	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RD14	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD15	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
RD16	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
RD17	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RD18	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RD19	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RD20	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD21	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD22	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RD23	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RD24	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
RD25	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RD26	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD27	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RD28	61079-918-100	R-MT CHIP;RMC 1/16 10-J
RD29	61079-918-100	R-MT CHIP;RMC 1/16 10-J
RD30	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RD31	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RD32	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RD33	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD34	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
RD35	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD36	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RD37	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD38	61079-918-225	R-MT CHIP;RMC 1/16 2.2M-J
RD39	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RD40	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RD44	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD45	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD46	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD47	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RD48	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RD49	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
RD50	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RD51	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RD52	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RD53	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RD54	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
VRD01	61249-924-002	VR-SEMI CHIP;EVM-1XSX50B14
XD01	B1280-0051	CRYSTAL;19.3125MHZ JX0-3 5PPM

****

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
143	69063-213-691	ASSY PROCESS BOARD;S8C-3 CAM
CNP01	B6010-0357	CONNECTOR-FPC;87768-024
CNP02	B6012-0119	CONNECTOR-HOUSING;4-175630-4
CNP03	B6012-0119	CONNECTOR-HOUSING;4-175630-4
CP01	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CP02	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CP03	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP04	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP05	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP06	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CP07	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP08	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP10	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CP100	61407-101-160	C-CERAMIC.TEMP;CC45 SL TAPG 50V 15-J
CP100	61454-153-150	C-CERAMIC CHIP;C1608 CH1H150JT
CP12	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CP13	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CP14	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP15	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP16	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
CP17	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP18	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP19	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP20	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP21	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP22	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP23	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP24	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP25	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP26	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP27	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP28	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP29	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CP30	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CP31	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP32	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP33	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP34	61454-157-473	C-CERAMIC CHIP;C1608 JF1C 473ZT
CP35	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CP36	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
CP37	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP38	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP39	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP40	B1106-0010	C-TANTALUM,CHIP;TAJB106M006R
CP41	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CP42	61628-319-105	C-TANTAL.CHIP;TAJB 105M 035
CP44	B1106-0010	C-TANTALUM,CHIP;TAJB106M006R
CP45	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP46	B1106-0155	C-TANTALUM,CHIP;CS 7V T47M-M C6032
CP47	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP48	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP49	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP50	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP51	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP52	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP53	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP54	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CP57	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP58	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CP59	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP60	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP62	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CP63	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP65	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP66	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP67	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP68	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP69	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP70	61454-154-222	C-CERAMIC CHIP;1608 B1H 222KT
CP71	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP72	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CP73	61454-153-150	C-CERAMIC CHIP;C1608 CH1H150JT
CP74	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CP75	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CP76	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CP77	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CP79	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CP80	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CP81	61454-153-470	C-CERAMIC CHIP;C1608 CH1H470JT
CP82	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CP83	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP84	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP85	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP86	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CP88	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CP89	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP90	B1106-0010	C-TANTALUM,CHIP;TAJB106M006R
CP91	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP92	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CP93	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CP94	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CP95	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CP96	B1106-0010	C-TANTALUM,CHIP;TAJB106M006R

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
CP98	61647-802-101	C-ELEC.;CEAP 6.3V 100M SE(2.5)
CP99	61454-153-100	C-CERAMIC CHIP;C1608 CH1H100DT
CTP01	61829-302-701	C-TRIMMER.CHIP;TZB04P300BA 006
DP01	62169-901-077	DIODE.CHIP;MA110-(TX)
DP02	62169-901-068	DIODE.CHIP;MA341-(TX)
FLP01	64529-001-007	LC FILTER.CHIP;TH356LSM-K5041UND=P1
FLP02	64529-632-109	LC FILTER.CHIP;TH354LAI-K5054DDG=PI 4MHZ LPF
FLP03	64529-419-050	FILTER LC(LPF);H356LSK-4259WID=P
FLP04	64529-419-040	LC FILTER.CHIP(DELAY);G355ENK-1979LAD=P
ICP01	62119-701-106	IC-FP;CXA1391R-T5
ICP02	B4008-0889	IC;MSM6819M(R4)
ICP03	B4012-0076	IC-LINER;MN3861SA SOP (E2)
ICP04	62119-701-107	IC-FP;CXA1392R-T3
ICP05	62119-701-045	IC-FP;TC74HC86F(EL)
ICP06	62119-701-115	IC-F.P;MN67621F
LP01	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP02	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP03	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP04	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP05	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP06	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP07	62429-962-470	INDUCTOR-CHIP;NL322522T 470-J
LP08	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LP09	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
QP01	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP03	B4050-0073	TR-GENERAL.CHIP;IMZ2
QP04	62129-301-062	TRANSISTOR.CHIP;2SC 2714-Y(TE85L)
QP05	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP06	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QP07	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QP08	62129-303-006	TRANSISTOR-CHIP;1MX1
QP09	B4050-0073	TR-GENERAL.CHIP;IMZ2
QP10	B4050-0073	TR-GENERAL.CHIP;IMZ2
QP12	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP13	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QP14	62129-303-006	TRANSISTOR-CHIP;1MX1
QP15	B4050-0073	TR-GENERAL.CHIP;IMZ2
QP16	62129-303-006	TRANSISTOR-CHIP;1MX1
QP17	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP18	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP19	62139-601-656	FET;2SK 209 TE85L
QP20	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QP21	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QP22	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
RP01	61079-918-182	R-MT CHIP;RMC 1/16 1.8K-J
RP02	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP03	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP04	61079-918-182	R-MT CHIP;RMC 1/16 1.8K-J
RP05	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
RP06	61079-918-303	R-MT CHIP;RMC 1/16 30K-J
RP07	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
RP08	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP09	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP100	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP101	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP102	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP103	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP104	61079-918-122	R-MT CHIP;RMC 1/16 1.2K-J
RP105	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
RP106	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RP107	61079-918-562	R-MT CHIP;RMC 1/16 5.6K-J
RP108	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP109	61079-918-221	R-MT CHIP;RMC 1/16 220-J
RP11	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP110	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
RP111	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP112	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP113	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RP114	61079-918-331	R-MT CHIP;RMC 1/16 330-J
RP115	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP116	61079-917-000	R-MG.CHIP;RMC 1/10 000
RP117	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP118	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
RP119	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP12	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP120	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP121	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP122	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP123	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RP124	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP125	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP126	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
RP127	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP128	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
RP129	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP13	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP130	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP131	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP132	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP134	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP136	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP14	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP15	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP16	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
RP17	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP18	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP19	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP20	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP202	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP21	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP22	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP23	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP24	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP25	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP26	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RP27	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP28	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP29	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP30	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP32	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP33	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP34	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
RP35	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP36	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP37	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP38	61079-918-681	R-MT CHIP;RMC 1/16 680-J
RP39	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
RP40	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP41	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP42	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP43	61079-918-242	R-MT CHIP;RMC 1/16 2.4K-J
RP44	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RP45	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP46	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP47	A1020-0454	R-CHIP;RH 1/16 CS 511-J C1608 RMC 1/16 510-J
RP48	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP49	A1020-0454	R-CHIP;RH 1/16 CS 511-J C1608 RMC 1/16 510-J
RP50	A1020-0454	R-CHIP;RH 1/16 CS 511-J C1608 RMC 1/16 510-J
RP51	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP52	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
RP53	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP54	61079-918-152	R-MT CHIP;RMC 1/16 1.5K-J
RP55	61079-918-123	R-MT CHIP;RMC 1/16 12K-J
RP56	61079-918-123	R-MT CHIP;RMC 1/16 12K-J
RP57	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
RP58	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP59	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP60	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP61	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP62	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP63	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP64	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP65	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP69	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RP71	61079-918-221	R-MT CHIP;RMC 1/16 220-J
RP72	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
RP73	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP75	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP76	61079-918-123	R-MT CHIP;RMC 1/16 12K-J
RP77	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP78	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP79	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RP80	61079-918-563	R-MT CHIP;RMC 1/16 56K-J
RP81	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP82	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP83	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
RP84	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RP85	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP86	A1020-0453	R-CHIP;RH 1/16 CS 243-J C1608 RMC 1/16 24K-J
RP87	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
RP88	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RP89	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RP90	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP91	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RP92	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RP93	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RP94	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RP95	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RP96	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RP97	61079-918-183	R-MT CHIP;RMC 1/16 18K-J
RP98	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RP99	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
VRP01	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP02	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP03	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP04	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP05	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP06	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP07	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP08	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP09	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP10	61249-924-001	VR-SEMI CHIP;EVM-1XSX50B13
VRP11	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP12	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP13	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
VRP14	61249-924-007	VR-SEMI CHIP;EVM-1XSX50B54
XP01	64539-012-534	CRYSTAL;HC-49/U-S(17.735)

****

145	69063-213-692	ASSY LENS DRV BOARD;S8C-3 CAM
CNL01	B6010-0336	CONNECTOR-FPC;87768-020
CNL02	B6010-0336	CONNECTOR-FPC;87768-020

****

146	69063-213-693	ASSY AUTO BOARD;S8C-3 CAM
CA01	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA02	61628-309-100	C-TANTAL.CHIP;TAJA 225M 6R3
CA03	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA04	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA05	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CA06	61454-153-271	C-CERAMIC CHIP;C1608 CH1H271JT
CA07	61454-153-271	C-CERAMIC CHIP;C1608 CH1H271JT
CA08	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CA09	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CA10	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA11	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA12	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CA13	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA14	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA15	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CA16	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA19	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA20	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
CA21	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA22	61628-269-090	C-TANTAL.CHIP;TAJB476M010R

http://www.ManualsCenter.com

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
CA23	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA24	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CA25	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA26	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
CA27	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
CA28	61454-154-332	C-CERAMIC CHIP;C1608 B1H 332KT
CA29	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA30	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
CA31	61628-269-471	C-TANTAL.CHIP;TAJD476M006R
CA32	61454-154-472	C-CERAMIC CHIP;C1608 JB1H 472KT
CA34	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA35	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA36	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CA37	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA38	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CA39	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA40	61628-309-100	C-TANTAL.CHIP;TAJA 225M 6R3
CA41	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA42	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CA43	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA44	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CA45	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA46	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CA47	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA48	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA49	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA50	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA51	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CA54	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA55	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA56	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA57	61628-269-070	C-TANTAL.CHIP;TAJB335M016R
CA58	61628-269-471	C-TANTAL.CHIP;TAJD476M006R
CA59	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA60	61628-269-221	C-TANTAL.CHIP;TAJC226M006R
CA61	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA62	B1100-0630	C-CERAMIC,CHIP;GRM40 Y5V 105Z 16
CA63	61454-153-150	C-CERAMIC CHIP;C1608 CH1H150JT
CA64	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA66	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA67	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CA68	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA69	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA70	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA71	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CA72	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CA74	61454-153-101	C-CERAMIC CHIP;C1608 CH1H101JT
CA75	61454-153-430	C-CERAMIC CHIP;C1608 CH1H430JT
CA76	B1106-0016	C-TANTALUM,CHIP;TAJB106M010R
CNA01	B6010-0084	CONNECTOR-WAFER;4-175635-4
CNA02	B6010-0084	CONNECTOR-WAFER;4-175635-4
CNA03	B6010-0429	CONNECTOR-WAFER;53048-0310 WHT
CNA04	B6010-0429	CONNECTOR-WAFER;53048-0310 WHT
CNA05	B6010-0387	CONNECTOR-WAFER;53048-0410 WHT
CNA06	B6010-0503	CONNECTOR-WAFER;53048-1210 WHT
CNA07	B6010-0356	CONNECTOR-FPC;87768-016
CNA08	63349-603-020	CONNECTOR-WAFER;53015-0210
CNA09	B6010-0348	CONNECTOR-WAFER;53048-0810
CNA11	B6010-0336	CONNECTOR-FPC;87768-020
DA01	62169-901-031	DIODE.CHIP;MA121-(TX)
DA02	62169-901-031	DIODE.CHIP;MA121-(TX)
DA03	62169-901-077	DIODE.CHIP;MA110-(TX)
DA04	62169-901-077	DIODE.CHIP;MA110-(TX)
DA05	62169-901-077	DIODE.CHIP;MA110-(TX)
DA06	62169-901-077	DIODE.CHIP;MA110-(TX)
DA07	62169-901-077	DIODE.CHIP;MA110-(TX)
DA08	62169-901-077	DIODE.CHIP;MA110-(TX)
DA09	62169-901-074	DIODE.CHIP;MA151WK-(TX)
FLA01	A1242-0003	FILTER-LC,CHIP;LP H486LSK-K7001=P1 2.1M
ICA01	B4000-0029	IC-EEPROM;X24C00 SOP
ICA02	B4008-0782	IC-OP AMP;BA4558F SOP (T1)
ICA03	62119-402-030	IC-FP;NJM3414M(TE3)
ICA04	B4008-0783	IC-DRIVE;LB1830 SOP

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
ICA05	B4004-0041	IC-LOGIC;TB6504F SOP
ICA06	62119-402-030	IC-FP;NJM3414M(TE3)
ICA07	B4002-0054	IC-MCU;UPD 78214
ICA08	A4006-0002	IC;SF6401 QFP
ICA09	B4014-0008	IC;MSM6219MS SOP-R1
ICA10	62119-701-086	IC-FP;NJU 74HC 4066M(TE2)
LA01	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA02	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA03	62429-961-103	INDUCTOR-CHIP;LQH3N 101-K
LA05	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA06	62429-960-831	INDUCTOR.CHIP;LQH3N 330-K
LA07	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA08	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA09	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA10	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA11	62429-961-224	INDUCTOR-CHIP;LQH3N 220-K
LA12	62429-962-102	INDUCTOR-CHIP;NL322522T 101-J
QA01	B4050-0067	TRANSISTOR.CHIP;IMT1
QA02	62129-303-006	TRANSISTOR-CHIP;1MX1
QA03	62129-303-006	TRANSISTOR-CHIP;1MX1
QA04	62129-303-006	TRANSISTOR-CHIP;1MX1
QA05	62129-303-006	TRANSISTOR-CHIP;1MX1
QA06	62129-303-006	TRANSISTOR-CHIP;1MX1
QA07	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA08	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QA10	62129-303-006	TRANSISTOR-CHIP;1MX1
QA12	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QA13	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA14	62129-301-063	TRANSISTOR.CHIP;2SC 2884-Y(TE12L)
QA15	62129-301-062	TRANSISTOR.CHIP;2SC 2714-Y(TE85L)
QA16	62129-301-071	TRANSISTOR.CHIP;DTC 144WK(TF96)
QA17	B4050-0088	TR-GENERAL,CHIP;IMZ1 300MW 100MA 50MHZ 50V SI/
QA18	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA19	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA20	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA21	62129-304-008	TRANSISTOR-CHIP;DTC 114EU(T106)
QA22	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QA23	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QA24	62129-301-071	TRANSISTOR.CHIP;DTC 144WK(TF96)
RA01	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
RA02	61079-918-512	R-MT CHIP;RMC 1/16 5.1K-J
RA03	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RA05	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RA06	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RA07	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA08	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA09	61079-918-271	R-MT CHIP;RMC 1/16 270-J
RA10	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA100	61079-918-683	R-MT CHIP;RMC 1/16 68K-J
RA101	61079-918-474	R-MT CHIP;RMC 1/16 470K-J
RA102	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
RA103	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
RA104	61079-918-683	R-MT CHIP;RMC 1/16 68K-J
RA105	61079-918-474	R-MT CHIP;RMC 1/16 470K-J
RA106	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RA107	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RA109	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA11	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
RA110	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RA111	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA112	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA113	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA114	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
RA115	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA116	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA117	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA118	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA119	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA12	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RA120	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA121	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA122	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA123	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
RA124	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA125	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA126	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA127	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA128	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA129	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA13	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RA130	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA131	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RA132	61079-918-224	R-MT CHIP;RMC 1/16 220K-J
RA133	61079-918-224	R-MT CHIP;RMC 1/16 220K-J
RA134	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA135	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RA136	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA137	61079-918-224	R-MT CHIP;RMC 1/16 220K-J
RA138	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA139	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA14	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RA140	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA141	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA142	61079-918-273	R-MT CHIP;RMC 1/16 27K-J
RA143	61079-217-100	R-MG.CHIP;RMC 1/8 10-J
RA144	61079-918-433	R-MT CHIP;RMC 1/16 43K-J
RA145	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA146	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
RA147	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RA147	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
RA148	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RA15	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA16	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA17	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA18	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA19	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RA20	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA21	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA22	61079-918-272	R-MT CHIP;RMC 1/16 2.7K-J
RA24	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA25	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RA25	61079-918-271	R-MT CHIP;RMC 1/16 270-J
RA26	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA27	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA28	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA29	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RA30	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA31	61079-918-271	R-MT CHIP;RMC 1/16 270-J
RA32	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RA33	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA34	61079-918-561	R-MT CHIP;RMC 1/16 560-J
RA35	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
RA36	61079-918-822	R-MT CHIP;RMC 1/16 8.2K-J
RA37	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA38	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
RA39	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
RA40	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA41	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
RA43	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA44	61079-918-303	R-MT CHIP;RMC 1/16 30K-J
RA45	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
RA46	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
RA47	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA48	61079-918-392	R-MT CHIP;RMC 1/16 3.9K-J
RA49	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA51	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA52	61079-918-123	R-MT CHIP;RMC 1/16 12K-J
RA53	61079-917-473	R-MG.CHIP;RMC 1/10 47K-J
RA54	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RA55	61079-918-331	R-MT CHIP;RMC 1/16 330-J
RA56	61079-917-478	R-MG.CHIP;RMC 1/10 4.7-J
RA57	61079-917-478	R-MG.CHIP;RMC 1/10 4.7-J
RA58	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA59	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA60	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA61	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA62	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RA63	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA64	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RA65	61079-918-562	R-MT CHIP;RMC 1/16 5.6K-J
RA66	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RA67	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RA68	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA69	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA70	61079-918-153	R-MT CHIP;RMC 1/16 15K-J
RA71	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA72	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RA73	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RA74	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA75	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA76	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RA77	61079-918-563	R-MT CHIP;RMC 1/16 56K-J
RA78	61079-918-472	R-MT CHIP;RMC 1/16 4.7K-J
RA79	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA80	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA81	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA82	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA83	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA84	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA85	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA86	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA87	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA88	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA89	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA90	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA91	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA92	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA93	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA94	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA95	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RA96	A1020-0430	R-CHIP;RMC 1/16 CS 203-J C1608 RMC 1/16 20K-J
RA98	61079-918-682	R-MT CHIP;RMC 1/16 6.8K-J
RA99	61079-918-332	R-MT CHIP;RMC 1/16 3.3K-J
VRA01	61249-924-003	VR-SEMI CHIP;EVM-1XSX50B15
VRA02	61249-924-002	VR-SEMI CHIP;EVM-1XSX50B14
VRA03	61249-924-002	VR-SEMI CHIP;EVM-1XSX50B14
XA01	62429-014-130	COIL OSC;JXO-3(14.31818MHZ)

****

148	69063-213-694	ASSY FUNCTION BOARD;S8C-3 CAM
CF01	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CF02	61454-154-103	C-CERAMIC CHIP;C1608 B1H 103KT
CF03	61628-309-100	C-TANTAL.CHIP;TAJA 225M 6R3
CF04	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CF05	61628-309-100	C-TANTAL.CHIP;TAJA 225M 6R3
CF06	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CF07	61454-153-220	C-CERAMIC CHIP;C1608 CH1H220JT
CF08	61454-159-104	C-CERAMIC CHIP;C1608 F1E 104T-Z
CF09	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CF11	61454-154-102	C-CERAMIC CHIP;C1608 B1H 102KT
CF12	61454-153-270	C-CERAMIC CHIP;C1608 CH1H270JT
CNF01	B6010-0356	CONNECTOR-FPC;87768-016
CNF02	B6010-0346	CONNECTOR-WAFER;53048-0210
DF01	62169-901-060	DIODE.CHIP;KDS196S RTK(REEL)
DF02	62169-901-074	DIODE.CHIP;MA151WK-(TX)
DF03	62169-901-074	DIODE.CHIP;MA151WK-(TX)
DF04	62169-901-074	DIODE.CHIP;MA151WK-(TX)
DF05	62169-901-074	DIODE.CHIP;MA151WK-(TX)
DF06	62169-901-060	DIODE.CHIP;KDS196S RTK(REEL)
DF07	62169-901-060	DIODE.CHIP;KDS196S RTK(REEL)
DF08	A4112-0007	DIODE-SHOTTKY.CHIP;SB01-05CP-(TB)
DF09	A4112-0007	DIODE-SHOTTKY.CHIP;SB01-05CP-(TB)
DF10	62169-901-077	DIODE.CHIP;MA110-(TX)
DF11	62309-110-340	LED;GL-3HD7/GL3HD8
ICF01	67199-0125-00	MICOM;UPD75006GB-598-3B4 QFP
LF02	62429-961-684	INDUCTOR.CHIP;LQH3N 680-K
QF01	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
QF02	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QF03	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QF04	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QF05	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QF06	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QF07	62129-101-172	TRANSISTOR.CHIP;KSC 1623G(REEL)
QF08	62139-601-656	FET;2SK 209 TE85L
QF09	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
QF10	62129-301-071	TRANSISTOR.CHIP;DTC 144WK(TF96)
RF01	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF02	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF03	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF04	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF05	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RF06	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RF07	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RF08	61079-918-103	R-MT CHIP;RMC 1/16 10K-J
RF09	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RF10	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
RF11	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
RF12	61079-918-473	R-MT CHIP;RMC 1/16 47K-J
RF13	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
RF14	61079-918-105	R-MT CHIP;RMC 1/16 1M-J
RF15	61079-918-184	R-MT CHIP;RMC 1/16 180K-J
RF16	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF17	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF18	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF19	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF20	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
RF21	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF22	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF23	61079-918-222	R-MT CHIP;RMC 1/16 2.2K-J
RF24	61079-918-101	R-MT CHIP;RMC 1/16 100-J
RF25	61079-918-333	R-MT CHIP;RMC 1/16 33K-J
RF26	61079-918-225	R-MT CHIP;RMC 1/16 2.2M-J
RF27	61079-918-683	R-MT CHIP;RMC 1/16 68K-J
RF28	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF29	61079-918-223	R-MT CHIP;RMC 1/16 22K-J
RF30	61079-918-393	R-MT CHIP;RMC 1/16 39K-J
RF31	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF32	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF33	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF34	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF35	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF36	61079-918-471	R-MT CHIP;RMC 1/16 470-J
RF37	61079-918-102	R-MT CHIP;RMC 1/16 1.0K-J
RF38	61079-918-334	R-MT CHIP;RMC 1/16 330K-J
RF39	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF40	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF41	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF42	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF43	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF44	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF45	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF46	61079-918-000	R-MT CHIP;RMC 1/16 0-J
RF47	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF48	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF49	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF50	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF51	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF52	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF53	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF54	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF55	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF56	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF57	61079-918-104	R-MT CHIP;RMC 1/16 100K-J
RF58	61079-217-000	R-MG.CHIP;RMC 1/8 000-J
SF01	63519-103-104	SW-SLIDE;SSSS21B51A
SF02	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF03	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF04	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF05	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF06	63519-105-102	SW-TACT.CHIP;SKHMPT017A

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
SF07	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF08	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF09	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF10	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SF11	63519-105-102	SW-TACT.CHIP;SKHMPT017A
XF01	64539-021-010	CRYSTAL;P-3(32.768KHZ)
XF02	64539-102-350	CERAMIC RESONATOR;EFO-GC4194A4

****

149	69063-213-730	ASSY AF/MF BOARD;S8C-3 CAM

SM01	63519-105-102	SW-TACT.CHIP;SKHMPT017A
SM02	63519-105-102	SW-TACT.CHIP;SKHMPT017A
WM01	63053-916-562	LEAD CONNECTOR ASSY;1571 #28 51021-0400 4PIN

****

180	69063-213-505	ASSY EVF BOARD;VP-E807

CE01	B1102-0156	C-FILM.CHIP;CQS 162 M 16V T 104-J ECWU1C104JA5
CE02	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
CE03	61628-339-476	C-TANTAL.CHIP;TAJD 476M 010R
CE04	A1100-0044	C-CERAMIC.CHIP;2012B 223K
CE05	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
CE06	61628-349-104	C-TANTAL.CHIP;TAJA 104K 35R
CE07	61628-269-090	C-TANTAL.CHIP;TAJB475M010R
CE08	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CE09	61628-309-107	C-TANTAL.CHIP;TAJD 107 M 6R3
CE10	61628-339-476	C-TANTAL.CHIP;TAJD 476M 010R
CE11	61507-121-411	C-POLYESTER;CQ921M TAPG 100V 332-J
CE12	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
CE13	61453-130-121	C-CERAMIC.CHIP;0805 5A 121JAT MA
CE14	61454-246-293	C-ELEC.CHIP;ECE-V1HA3R3R
CE15	61407-100-151	C-CERAMIC;HCYB3A 151KDB
CE16	61407-100-331	C-CERAMIC;HCYB3A 331KDB
CNE01	B6013-0041	CONNECTOR-FPC;52207-0490 WHT
CNE02	63349-900-009	CONNECTOR;CGP1602-0101
CNE03	63349-900-009	CONNECTOR;CGP1602-0101
CNE04	63343-500-011	SOCKET-CRT;S6-510T-622
DE01	62169-901-043	DIODE.CHIP;MA151K-(TX)
DE02	62169-901-044	DIODE.CHIP;MA152WA/23316273R(1SS181)
FTE01	62139-602-012	FBT;ECX-C2806A
ICE01	62119-121-049	IC-FP;AN2512S-(E2)
LE01	62429-961-684	INDUCTOR.CHIP;LQH3N 680-K
LE02	62429-014-304	COIL-LINEARITY;ELH-5L218
QE01	62129-301-172	TRANSISTOR.CHIP;2SD 968A-R/S(TX)
QE02	62129-101-080	TRANSISTOR.CHIP;KSA 812-G(REEL)
RE01	61079-917-182	R-MG.CHIP;RMC 1/10 1.8K-J
RE02	61079-917-101	R-MG.CHIP;RMC 1/10 100-J
RE03	61079-917-221	R-MG.CHIP;RMC 1/10 220-J
RE04	61079-917-399	R-MG.CHIP;RMC 1/10 3.9-J
RE05	61079-917-473	R-MG.CHIP;RMC 1/10 47K-J
RE06	61079-917-105	R-MG.CHIP;RMC 1/10 1M-J
RE07	61079-917-338	R-MG.CHIP;RMC 1/10 33-J
RE08	61079-917-152	R-MG.CHIP;RMC 1/10 1.5K-J
RE09	61079-917-474	R-MG.CHIP;RMC 1/10 470K-J
RE10	61079-917-104	R-MG.CHIP;RMC 1/10 100K-J
RE11	61079-917-821	R-MG.CHIP;RMC 1/10W 820-J
RE12	61079-917-222	R-MG.CHIP;RMC 1/10 2.2K-J
RE13	61079-917-221	R-MG.CHIP;RMC 1/10 220-J
RE14	61079-917-150	R-MG.CHIP;RMC 1/10 15-J
RE15	61079-917-222	R-MG.CHIP;RMC 1/10 2.2K-J
RE16	61079-917-684	R-MG.CHIP;RMC 1/10 680K-J
RE17	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
RE18	61079-917-623	R-MG.CHIP;RMC 1/10 62K-J
RE19	61079-917-182	R-MG.CHIP;RMC 1/10 1.8K-J
RE20	61079-917-684	R-MG.CHIP;RMC 1/10 680K-J
RE21	61079-917-105	R-MG.CHIP;RMC 1/10 1M-J
RE22	61079-917-000	R-MG.CHIP;RMC 1/10 000
RE23	61079-917-000	R-MG.CHIP;RMC 1/10 000
RE24	61079-917-155	R-MG.CHIP;RMC 1/10 1.5M-J
RE25	61079-917-225	R-MG.CHIP;RMC 1/10 2.2M-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
RE26	61079-917-824	R-MG.CHIP;RMC 1/10 820K-J
RTE01	B1335-0002	THERMISTOR-CHIP;NTC CS 3216 3BH 471KC
VRE01	61249-922-769	VR-SEMI CHIP;EVM-7JSX30B54
VRE02	61249-922-771	VR-SEMI CHIP;EVM-7JSX30B52
VRE03	61247-100-001	VR-SEMI;EVM-LSGA00BE6
VRE04	61247-100-002	VR-SEMI;EVM-LSGA00B16

6-5. ACCESSORIES

AC Power Adaptor Electrical Replacement Paers List

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
		ASSY MAIN BOARD;AA-E1N/DOM
	A6006-0086	POWER-CORD
	A6006-0085	POWER-CORD;VP-E807/SEAU
	A6006-0096	POWER-CORD;VP-E807/SEUK
B101	62429-014-337	CHIP-FERRITE BEAD;HF50ACB322513-T
B102	62429-014-337	CHIP-FERRITE BEAD;HF50ACB322513-T
C101	B1102-0109	C-FILM;CFS 14 1 250V 0.22M-K XE-224
C102	B1100-0508	C-CERAMIC;ECK-DNS 222ME
C103	B1100-0508	C-CERAMIC;ECK-DNS 222ME
C104	B1100-0508	C-CERAMIC;ECK-DNS 222ME
C105	B1100-0508	C-CERAMIC;ECK-DNS 222ME
C106	B1104-0239	C-ELEC;CEAP 400V 47M GA
C107	A1102-0120	C-FILM;TM2JRB 103K
C108	61637-208-220	C-ELEC;CEAP 50V 22M SA(6X11)
C109	61637-508-101	C-ELEC-CEAP 50V 100M SG(10X12.5)
C110	61507-121-341	C-POLYESTER;CQ921M TAPG 50V 102-J
C151	61507-121-341	C-POLYESTER;CQ921M TAPG 50V 102-J
C152	61507-121-341	C-POLYESTER;CQ921M TAPG 50V 102-J
C153	B1104-0240	C-ELEC ;CEAP 16V 1200M RG
C154	61637-504-471	C-ELEC;CEAP 16V 470M SG(10X12.5)
C155	61637-208-229	C-ELEC;CEAP 50V 2.2M SA (5X11)
C156	61509-144-520	C-POLYESTER;ECQ-VIH104JZ3/24538104D
C157	61647-708-010	C-ELEC;CEAP 50V 1M SS(2.5)
CN151	B6010-0337	CONNECTOR WAFER;B8P-MQ WHT 8P
D101	B4104-0042	DIODE-RECT;S1NV-60(600V 1A)
D102	B4112-0006	DIODE-SCHOTTKY;ERA22-10(1KV 0.5A)
D103	B4106-0049	DIODE-ZENER;MTZ-20B
D104	B4112-0006	DIODE-SCHOTTKY;ERA22-10(1KV 0.5A)
D105	B4112-0006	DIODE-SCHOTTKY;ERA22-10(1KV 0.5A)
D106	62169-406-482	DIODE;1N4148 SAMSUNG
D151	B4112-0002	DIODE-SCHOTTKY;ESAC85M-009(90V 10A)
D152	62169-501-064	DIODE;1N5819(ERB 81-004)
D153	62169-403-821	DIODE-ZENER;MTZ 5.1B
D154	62169-406-482	DIODE;1N4148 SAMSUNG
D155	62169-406-482	DIODE;1N4148 SAMSUNG
F101	64709-084-830	FUSE;T1.6A 250V 51S 5X20MM SJ DOM
F151	B3065-0114	FUSE-MICRO;TR/MCR-2.0BUSS
IC102	B4010-0011	IC;PC113(L) DIP
IC151	62109-103-330	IC;LM358N
L101	A1133-0003	COIL-FILTER;22MH-J RA UU-116
L151	62429-015-026	COIL CHOKE;10UH
Q101	B4054-0018	FET;2SK904
Q151	B4052-0027	TR;2SB1127S
Q152	B4056-0013	TR;2SD1207S
Q153	B4060-0021	TR;DTC114ES
Q154	B4060-0021	TR;DTC114ES
R101	61048-177-275	R-METAL FILM;RM 1/8TS 2.7M-J
R102	B1012-0014	R-WIRE WOUND;RW 2P 3.3-K
R103	61048-177-104	R-METAL FILM;RM 1/8TS 100K-J
R104	61048-177-104	R-METAL FILM;RM 1/8TS 100K-J
R105	61048-177-104	R-METAL FILM;RM 1/8TS 100K-J
R106	61049-527-473	R-METAL OXIDE;RS 2P 47K-J
R107	A1010-0004	R-FUSIBLE;RF 1/2 P 010-J
R108	61048-177-221	R-METAL FILM;RM 1/8TS 220-J
R109	A1004-0220	R-METAL OXIDE;RS 1 P R47-J
R151	61048-277-100	R-METAL FILM;RM 1/4T 10-J
R152	61048-177-681	R-METAL FILM;RM 1/8TS 680-J
R153	61048-177-272	R-METAL FILM;RM 1/8TS 2.7K-J
R154	61048-177-911	R-METAL FILM;RM 1/8TS 910-J
R155	61048-177-222	R-METAL FILM;RM 1/8TS 2.2K-J
R156	61048-177-104	R-METAL FILM;RM 1/8TS 100K-J
R157	61048-177-472	R-METAL FILM;RM 1/8TS 4.7K-J
R158	61048-177-472	R-METAL FILM;RM 1/8TS 4.7K-J
R159	61048-177-100	R-METAL FILM;RM 1/8TS 10-J
R160	A1004-0221	R-METAL OXIDE;RS 1 P 0R1-J
R161	61048-177-242	R-METAL FILM;RM 1/8TS 2.4K-J
R162	61048-177-123	R-METAL FILM;RM 1/8TS 12K-J
R163	61048-177-911	R-METAL FILM;RM 1/8TS 910-J

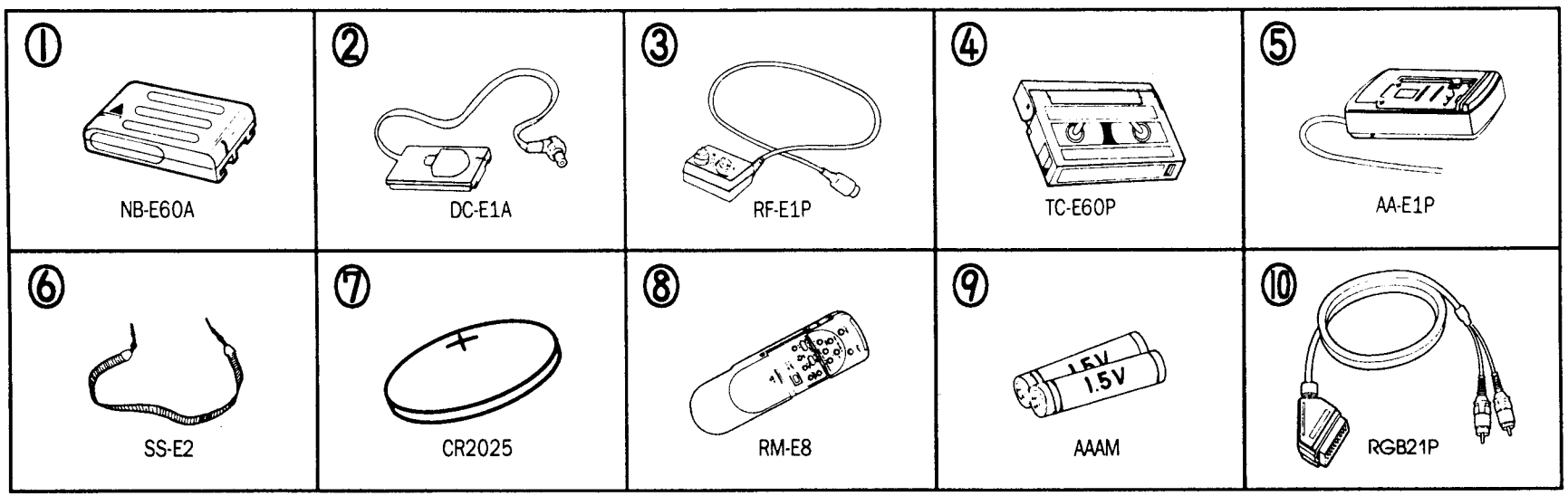
LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
R164	61048-177-104	R-METAL FILM;RM 1/8TS 100K-J
R165	61048-177-621	R-METAL FILM;RM 1/8TS 620-J
R166	A1010-0012	R-FUSIBLE;RF 1/2 P 4R7-J
R167	61049-327-101	R-METAL OXIDE;RS 1P 100-J
R168	61048-177-103	R-METAL FILM;RM 1/8TS 10K-J
R169	61048-277-151	R-METAL FILM;RM 1/4T 150-J
R170	61048-177-103	R-METAL FILM;RM 1/8TS 10K-J
T101	A1199-0020	TRANS-POWER;EI2519
VR151	B1054-0138	VR-SEMI;KVSF 637A 1/2W 1KVB
VR152	B1054-0139	VR-SEMI;KVSF 637A 1/2W 5KVB
45	69063-213-614	ASSY SUB1 BOARD;AA-E1N/P
C158	A1100-0005	C-CERAMIC.CHIP;2012F 563M
C159	61647-702-470	C-ELEC;CEAP 6.3V 47M SS(2.5)
C160	61454-143-473	C-CERAMIC.CHIP;0805 5E 473ZAT MA
C161	A1100-0015	C-CERAMIC.CHIP;2012B 152K
C162	61647-708-010	C-ELEC;CEAP 50V 1M SS(2.5)
C163	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG
CN152	B6010-0338	CONNECTOR WAFER;08MQ-ST WHT 8P
D156	B4150-0044	LED;SLB25MG
D157	B4106-0050	DIODE-ZENER;MTZ-15B
D158	B4106-0050	DIODE-ZENER;MTZ-15B
D159	62169-901-042	DIODE.CHIP;DAN202K
D160	B4150-0045	LED;SLB25YY
D161	62169-901-042	DIODE.CHIP;DAN202K
D162	62169-901-042	DIODE.CHIP;DAN202K
IC152	62109-201-410	IC;MC78L05(T)
L152	A1130-0020	COIL-CHOKE;100UH(PI0.35)
Q155	B4060-0021	TR;DTC114ES
Q156	62129-101-140	TRANSISTOR.CHIP;KSR 2104(REEL)
Q157	62129-101-110	TRANSISTOR.CHIP;KSR 1102 (REEL)
R171	61079-917-391	R-MG.CHIP;RMC 1/10 390-J
R172	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R173	61079-917-103	R-MG.CHIP;RMC 1/10 10K-J
R174	61079-917-223	R-MG.CHIP;RMC 1/10 22K-J
R175	61079-917-102	R-MG.CHIP;RMC 1/10 1K-J
R176	61079-917-391	R-MG.CHIP;RMC 1/10 390-J
R177	61079-917-561	R-MG.CHIP;RMC 1/10 560-J
R178	61079-917-273	R-MG.CHIP;RMC 1/10 27K-J
R179	61079-917-183	R-MG.CHIP;RMC 1/10 18K-J
R180	61079-917-243	R-MG CHIP;RMC 1/10 24K-J
R181	61079-917-561	R-MG.CHIP;RMC 1/10 560-J
R182	61079-917-821	R-MG.CHIP;RMC 1/10W 820-J
SW151	B3020-0008	SW-MICRO;D2A-1210
X151	B1283-0013	CERAMIC-RESONATOR;FCR 4.0MC(4.0MHZ)
46	69063-213-615	ASSY SUB2 BOARD;AA-E1N/P
C111	61453-131-332	C-CERAMIC.CHIP;0805 5C 332KAT MA
C112	A1100-0015	C-CERAMIC.CHIP;2012B 152K
C113	A1100-0005	C-CERAMIC.CHIP;2012F 563M
C114	61628-269-040	C-TANTAL.CHIP;TAJA105M016R
C115	61453-131-331	C-CERAMIC.CHIP;0805 5A 331JAT MA
D107	B4106-0051	DIODE-ZENER.CHIP;DZD 24Y
D108	B4106-0051	DIODE-ZENER.CHIP;DZD 24Y
IC101	B4008-0693	IC;M51978FP QFP
IC153	62109-201-314	IC;MB88211PF-166
J151	63335-501-007	DC-JACK;HEC 0738-010010
R110	61079-917-390	R-MG.CHIP;RMC 1/10 39-J
R111	61079-917-472	R-MG.CHIP;RMC 1/10 4.7K-J
R112	61079-917-104	R-MG.CHIP;RMC 1/10 100K-J
R113	61079-917-123	R-MG.CHIP;RMC 1/10 12K-J
R114	61079-917-223	R-MG.CHIP;RMC 1/10 22K-J
R115	61079-917-183	R-MG.CHIP;RMC 1/10 18K-J
R116	61079-917-223	R-MG.CHIP;RMC 1/10 22K-J
R117	61079-917-000	R-MG.CHIP;RMC 1/10 000
R118	61079-917-000	R-MG.CHIP;RMC 1/10 000
R119	61079-917-000	R-MG.CHIP;RMC 1/10 000
R120	61079-917-000	R-MG.CHIP;RMC 1/10 000
R121	61048-177-275	R-METAL FILM;RM 1/8TS 2.7M-J

LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION
	67643-610-710	DOOR-FUNCTION
	67643-610-711	DOOR-FUNCTION;VP-E807/QUE, REX, SELE
	67644-601-310	DOOR-BATTERY;ABS94HB
C1	61637-204-479	C-ELEC;CEAP 16V 4.7M SA(5X11)
C2	61407-117-103	C-CERAMIC.AXIAL;CAX B TAPG 100-K
C3	61407-117-103	C-CERAMIC.AXIAL;CAX B TAPG 100-K
C4	61407-117-228	C-CERAMIC.AXIAL;CAX SL TAPG 50V 223-Z
D1	62169-406-482	DIODE;1N4148 SAMSUNG
D2	62169-406-482	DIODE;1N4148 SAMSUNG
D3	62169-406-482	DIODE;1N4148 SAMSUNG
D4	62169-406-482	DIODE;1N4148 SAMSUNG
D5	62169-406-482	DIODE;1N4148 SAMSUNG
D6	62169-406-482	DIODE;1N4148 SAMSUNG
D7	62169-406-482	DIODE;1N4148 SAMSUNG
D8	62169-406-482	DIODE;1N4148 SAMSUNG
IC1	A4008-0070	IC;KS51900-28 SOP
IR1	62309-112-030	LED-IR;EL-1L1
IR2	62309-112-030	LED-IR;EL-1L1
Q1	A4050-0012	TRANSISTOR;KSD 1616-Y
R1	61048-177-109	R-METAL FILM;RM 1/8TS 1-J
R2	61048-177-109	R-METAL FILM;RM 1/8TS 1-J
R3	61048-177-564	R-METAL FILM;RM 1/8TS 560K-J
X1	64539-102-311	CERAMIC RESONATOR;CSB 455 EBL

NO / ITEM / BUYER	1	2	3	4	5	6	7	8	9	10
	BATTERY - PACK	DC CABLE	RF-UNIT	8mm VIDEO CASSETTE(P5-60)	AC POWER ADAPTOR	SHOULDER - STRAP	LITHIUM BATTERY PACK	WIRELESS REMOCON	BATTERY- DRY	RGB 21P CABLE ASSY
AL	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-210	64539-502-105	67179-0115-00	64179-036-006	-
AMFO	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
ANA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
AND	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
BHA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
DIN	A3067-0001	63054-410-041	-	63174-600-030	A7008-0014	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	63054-401-675
ETR	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
EUR	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
ISSA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
JUMA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
MAR	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
NSI	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
ORI	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
QUE	64539-502-071	63054-410-041	67179-0114-00	63174-600-030	63379-600-079	67853-600-210	64539-502-105	-	-	-
R/QUE	64539-502-071	63054-410-041	67179-0114-00	63174-600-030	63379-600-079	67853-600-210	64539-502-105	67179-0105-00	64179-036-006	-
REX	A3067-0005	63054-410-041	67179-0004-00	63174-600-030	A7008-0025	67853-600-210	64539-502-105	67179-0105-00	64179-036-006	-
RIE	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SEAU	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	A7008-0009	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SECO	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SEF	A3067-0001	63054-410-041	-	63174-600-030	A7008-0014	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	63054-401-675
SEH	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SEI	64539-502-072	63054-410-041	67179-0004-00	63179-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SELE	A3067-0005	63054-410-041	67179-0004-00	63174-600-030	A7008-0025	67853-600-210	64539-502-105	67179-0105-00	64179-036-006	-
SEP	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SETA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SEUK	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	A7008-0005	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SGE	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
SIM	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-

http://www.ManualsCenter.com

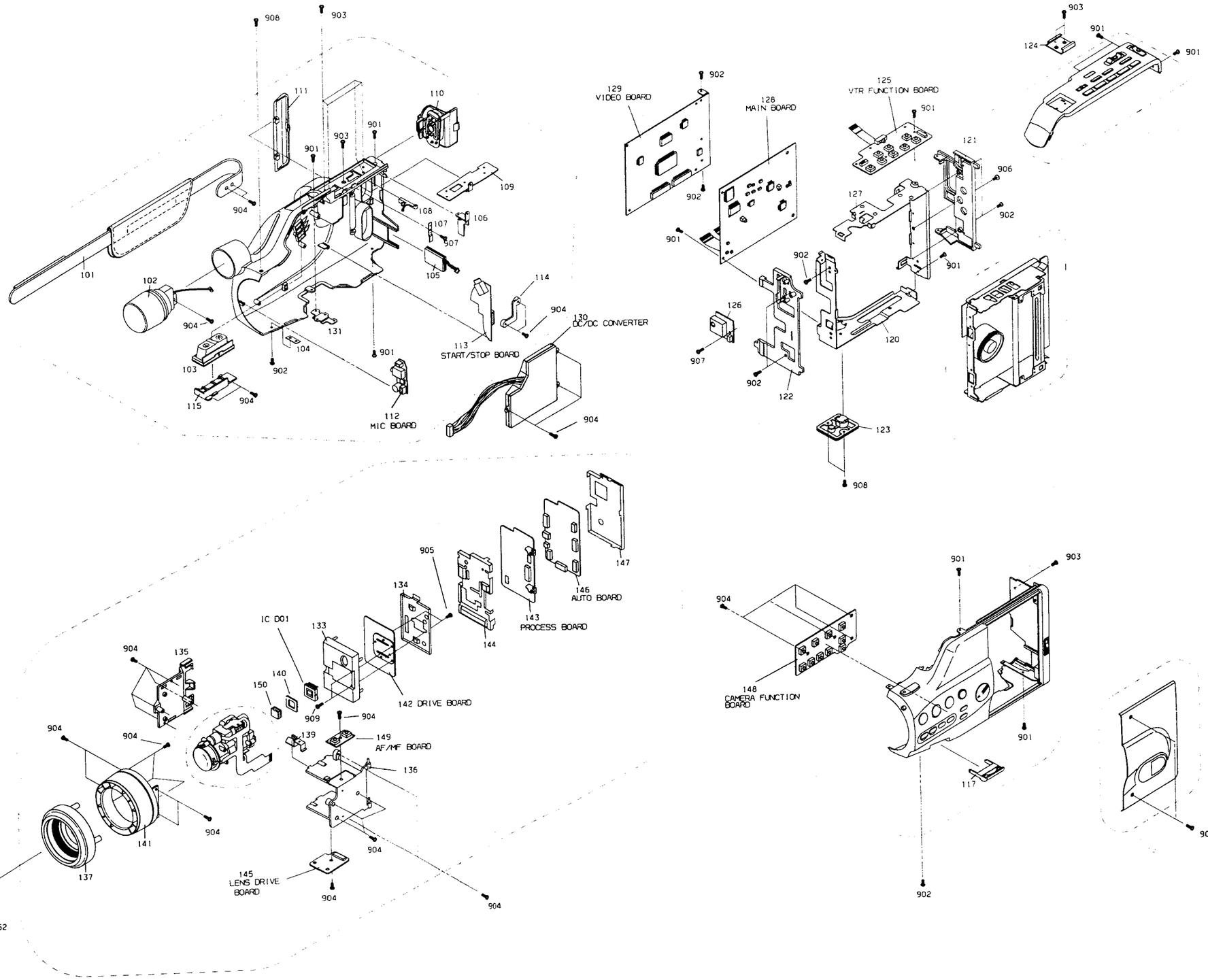
NO / ITEM / BUYER	1	2	3	4	5	6	7	8	9	10
	BATTERY - PACK	DC CABLE	RF-UNIT	8mm VIDEO CASSETTE(P5-60)	AC POWER ADAPTOR	SHOULDER - STRAP	LITHIUM BATTERY PACK	WIRELESS REMOCON	BATTERY- DRY	RGB 21P CABLE ASSY
SING	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
TAW	A3067-0002	63054-410-041	67179-0004-00	63174-600-030	A7008-0014	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-
ZAMA	64539-502-072	63054-410-041	67179-0004-00	63174-600-030	63379-600-084	67853-600-240	64539-502-105	67179-0115-00	64179-036-006	-



7. EXPLODED VIEW/PARTS LIST

		Page
7-1.	Cabinet Assembly	7-2
7-2.	Mechanical Parts (1)	7-4
7-3.	Mechanical Parts (2)	7-5
7-4.	Mechanical Parts (3)	7-6
7-5.	E.V.F	7-7
7-6.	AC Power Adaptor	7-8

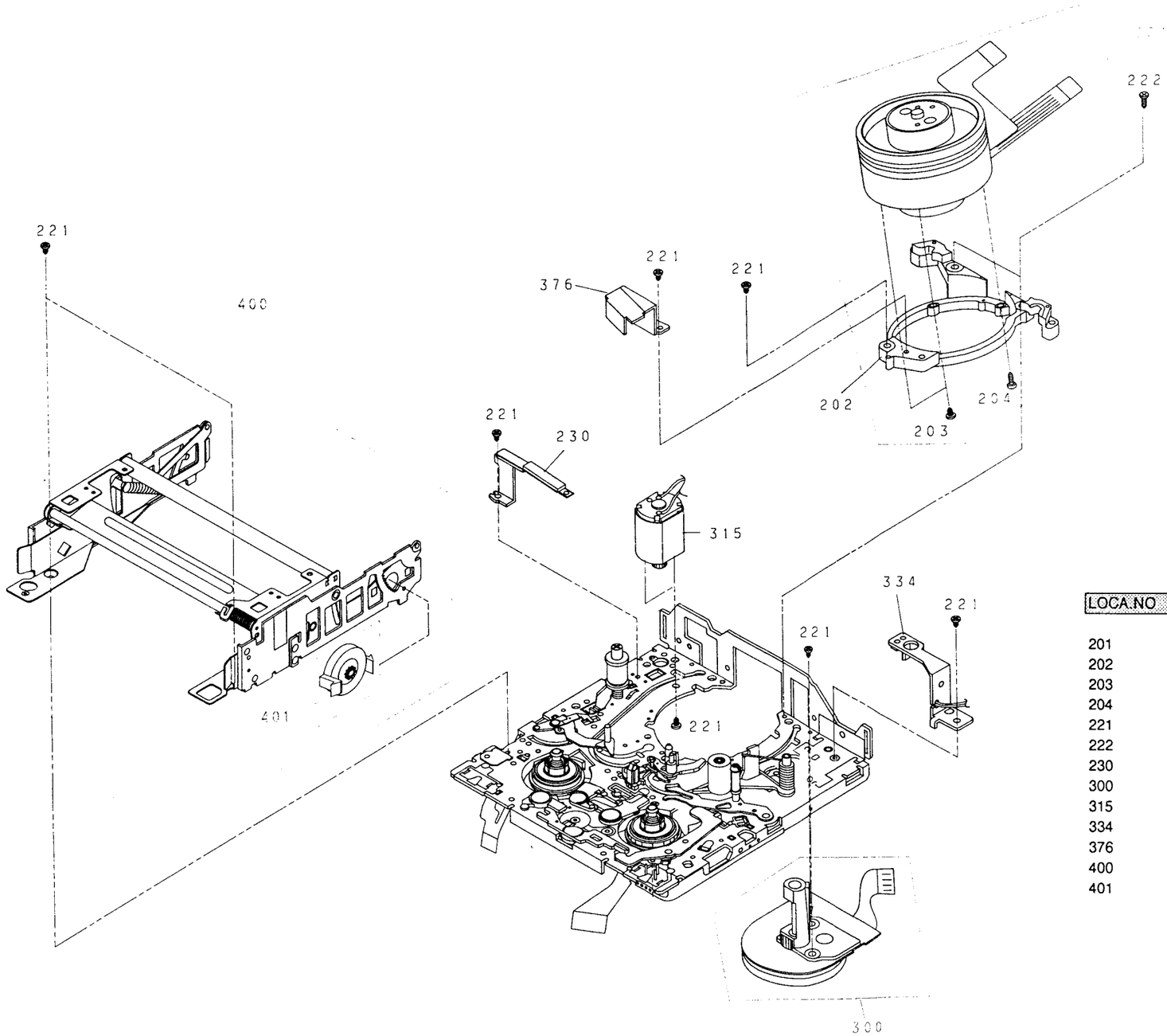
7-1. Cabinet Assembly



LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
100	69063-213-666	ASSY CASE R ; VP-E807	
	69063-213-928	ASSY CASE R ; VP-E807/QUE, R/QUE (VKR4626)	
	69063-213-929	ASSY CASE R ; VP-E807/REX	
	69063-213-930	ASSY CASE R ; VP-E807/SELE	
101	67843-600-120	HAND-GRIP ; VP-E807	
	67843-600-110	HAND-GRIP ; VP-E807/QUE, R/QUE (VKR4626)	
	67843-600-150	HAND-GRIP ; VP-E807/REX	
	67843-600-140	HAND-GRIP ; VP-E807/SELE	
102	69063-213-667	MIC ASSY;ECM-H06M	
103	69063-213-669	ASSY-ZOOM;VP-E807	
104	63014-0124-00	BRACKET-BOT LENS;EGCE T0.8	
105	67179-0060-00	ASSY BATTERY TERMINAL	
106	63014-0120-00	BRACKET-STRAP TOP;STS T1	
107	62724-0138-00	SPRING-PLATE A/V;PS STS T0.2 W2 L15	
108	64084-0213-00	KNOB-LOCK EVF;ABS94HB BLK VP-E807	
109	63014-0126-00	BRACKET-EVF;AL T1.0	
110	69063-213-668	ASSY-CAP GRIP ; VP-E807	
	69063-213-931	ASSY-CAP GRIP ; VP-E807/REX	
	69063-213-932	ASSY-CAP GRIP ; VP-E807/SELE	
111	64044-0068-00	DOOR-A/V JACK ; VP-E807	
	64044-0068-01	DOOR-A/V JACK ; VP-E807/REX	
	64044-0068-02	DOOR-A/V JACK ; VP-E807/SELE	
112	69063-213-508	ASSY MIC BOARD;S8C-3VTR	
113	69063-213-509	ASSY START/STOP BOARD;S8C-3VTR	
114	63324-0121-00	HOLDER-PCB REC/STOP;ABS94HB BLK	
115	63324-0123-00	HOLDER-PCB T/W;ABS94HB BLK	
116	69063-213-877	ASSY-CASE L ; VP-E807	
	69063-213-671	ASSY-CASE L ; VP-E807/QUE, R/QUE (VKR4626)	
	69063-213-885	ASSY-CASE L ; VP-E807/REX	
	69063-213-882	ASSY-CASE L ; VP-E807/SELE	
117	63323-0130-00	HOLDER-LITHUM BATT ; VP-E807	
	63323-0130-01	HOLDER-LITHUM BATT ; VP-E807/REX	
	63323-0130-02	HOLDER-LITHUM BATT ; VP-E807/SELE	
118	69063-213-875	ASSY-COVER HOUSING ; VP-E807	
	69063-213-674	ASSY-COVER HOUSING ; VP-E807/QUE, R/QUE (VKR4626)	
	69063-213-886	ASSY-COVER HOUSING ; VP-E807/REX	
	69063-213-930	ASSY-COVER HOUSING ; VP-E807/SELE	
119	69063-213-876	ASSY-CASE TOP ; VP-E807	
	69063-213-670	ASSY-CASE TOP ; VP-E807/QUE (VKR4626)	
	69063-213-880	ASSY-CASE TOP ; VP-E807/R/QUE (VKR4626)	
	69063-213-884	ASSY-CASE TOP ; VP-E807/REX	
	69063-213-881	ASSY-CASE TOP ; VP-E807/SELE	
120	62203-0076-00	CHASSIS-DECK REAR;AL T1.0 SIL VP-E807	
121	62213-0048-00	FRAME-FRONT DECK;POM BLK VP-E807	
122	62213-0049-00	FRAME-REAR DECK;POM BLK VP-E807	
123	63323-0064-00	HOLDER-TRITOD;ABS 94HB+SUS T1.5	
124	66614-624-310	BRACKET-ACC SHOE;SPG T0.8	
125	69063-213-507	ASSY VTR FUNCTION BOARD;S8C-3VTR	
126	69063-213-799	ASSY MODULE BOARD;S8C-2 VTR	
127	62203-0075-00	CHASSIS-DECK FRONT;AL T1.0 SIL VP-E807	
128	69063-213-499	ASSY MAIN BOARD;S8C-3VTR	
129	69063-213-500	ASSY VIDEO BOARD;S8C-3VTR	
130	69063-213-502	ASSY DC/DC CONVERTER;S8C-3VTR	

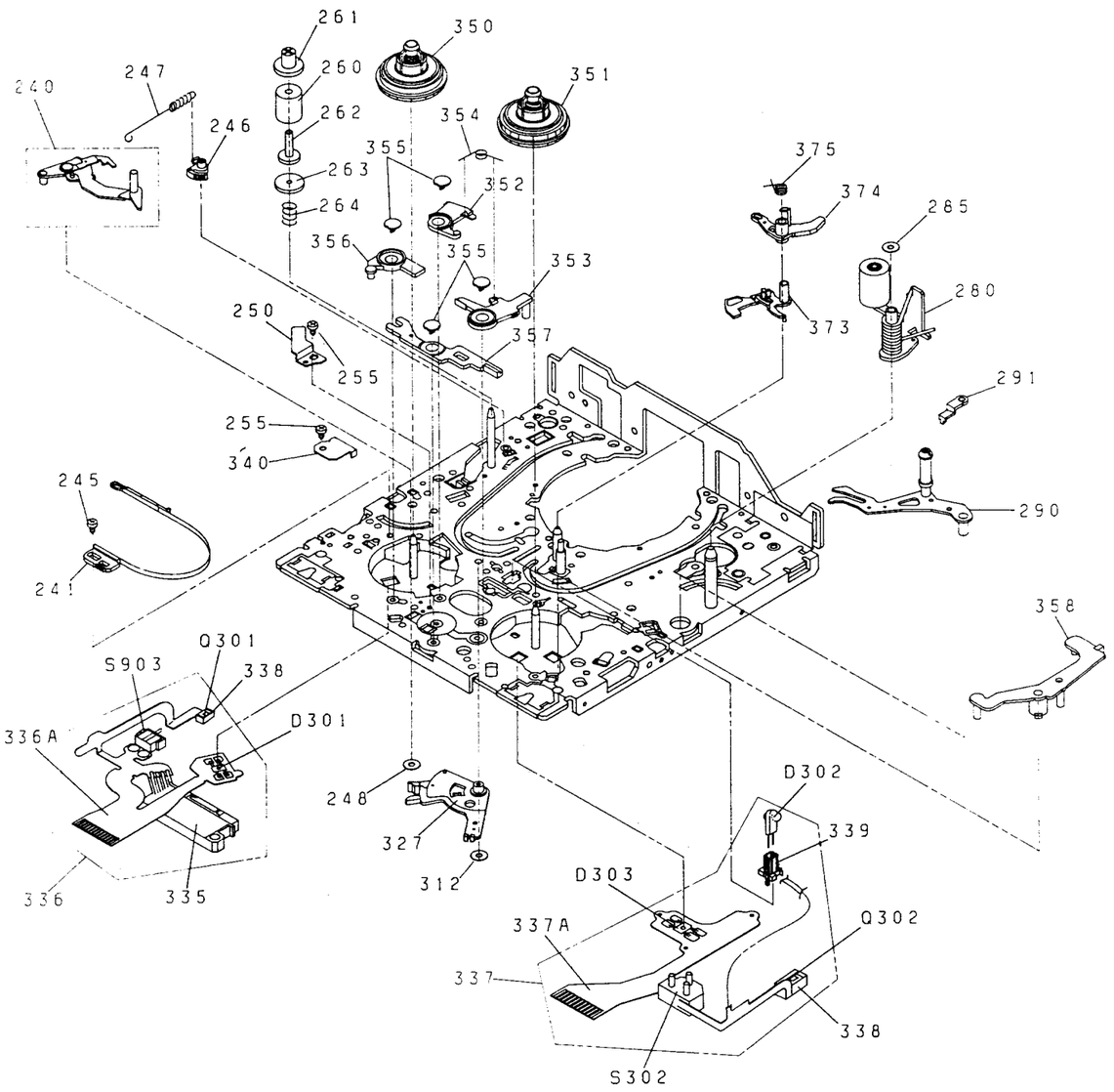
LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
131	63014-0122-00	BRACKET-ACC BASE;SPG T0.8	
132	CE-38P	ASSY CAMERA;S8C-3 CAMERA	
133	62074-0114-00	SHIELD-CASE TOP DRIVE;SPTE T0.25 WHT VP-E807	
134	62074-0115-00	SHIELD-CASE BOT DRIVE;SPTE T0.25 WHT VP-E807	
135	62213-0050-00	FRAME-LENS R;ABS94HB BLK VP-E807	
136	62213-0051-00	FRAME-LENS L;ABS94HB BLK VP-E807	
137	62712-0010-00	LENS-HOOD ; VP-E807	
	62712-0010-01	LENS-HOOD ; VP-E807/REX	
	62712-0010-02	LENS-HOOD ; VP-E807/SELE	
138	62719-0004-00	ZOOM LENS;T8D D25	
139	63014-0123-00	BRACKET-TOP LENS;EGCE T0.8	
140	63304-0008-00	SPACER-CCD;SILICON	
141	63313-0078-00	COVER-LENS ; VP-E807	
	63313-0078-01	COVER-LENS ; VP-E807/REX	
	63313-0078-02	COVER-LENS ; VP-E807/SELE	
142	69063-213-690	ASSY DRIVE BOARD;S8C-3 CAM	
143	69063-213-691	ASSY PROCESS BOARD;S8C-3 CAM	
144	62074-0116-00	SHIELD-CASE PROCESS;SPTE T0.25 WHT VP-E807	
145	69063-213-692	ASSY LENS DRV BOARD;S8C-3 CAM	
146	69063-213-693	ASSY AUTO BOARD;S8C-3 CAM	
147	62074-0091-00	SHIELD-CASE AUTO;SPTE T0.25 SIL VP-E807	
148	69063-213-694	ASSY CAMERA FUNCTION BOARD;S8C-3 CAM	
149	69063-213-730	ASSY AF/MF BOARD;S8C-3 CAM	
150	B1240-0046	FILTER-LC;SV-511B(OLPF)	
152	69063-213-761	ASSY CAP-HOOD;VP-E807	
200	DE-2AP	8MM FULL DECK ASSY;DE-2AP	
901	67094-120-230	SCREW-BH;M2X3 FE FZB	
902	67094-120-240	SCREW-BH;M2X4 FE FZB	
903	67018-120-047	SCREW FH;3+M2X5 FE FZB	
904	67128-520-206	SCREW-TAP TITE PLAIN;B+2X6 FE FZB	
905	A0102-0032	SCREW-TAP TITE;BH M2 5 SWRCH18A ZP4 BLK TB	
906	67064-600-210	SCREW-BH;+M2X4.5 FE FZY	
907	67128-522-240	SCREW-TAP TITE BH;2X4 FE FZB	
908	67094-120-250	SCREW-BH;M2X5 FE FZB	
909	67094-120-220	SCREW-BH;M2X2 FE FZY	
ICD01	B4014-0007	IC-CCD;TCD 5251D DIP	

7-2. Mechanical Parts (1)



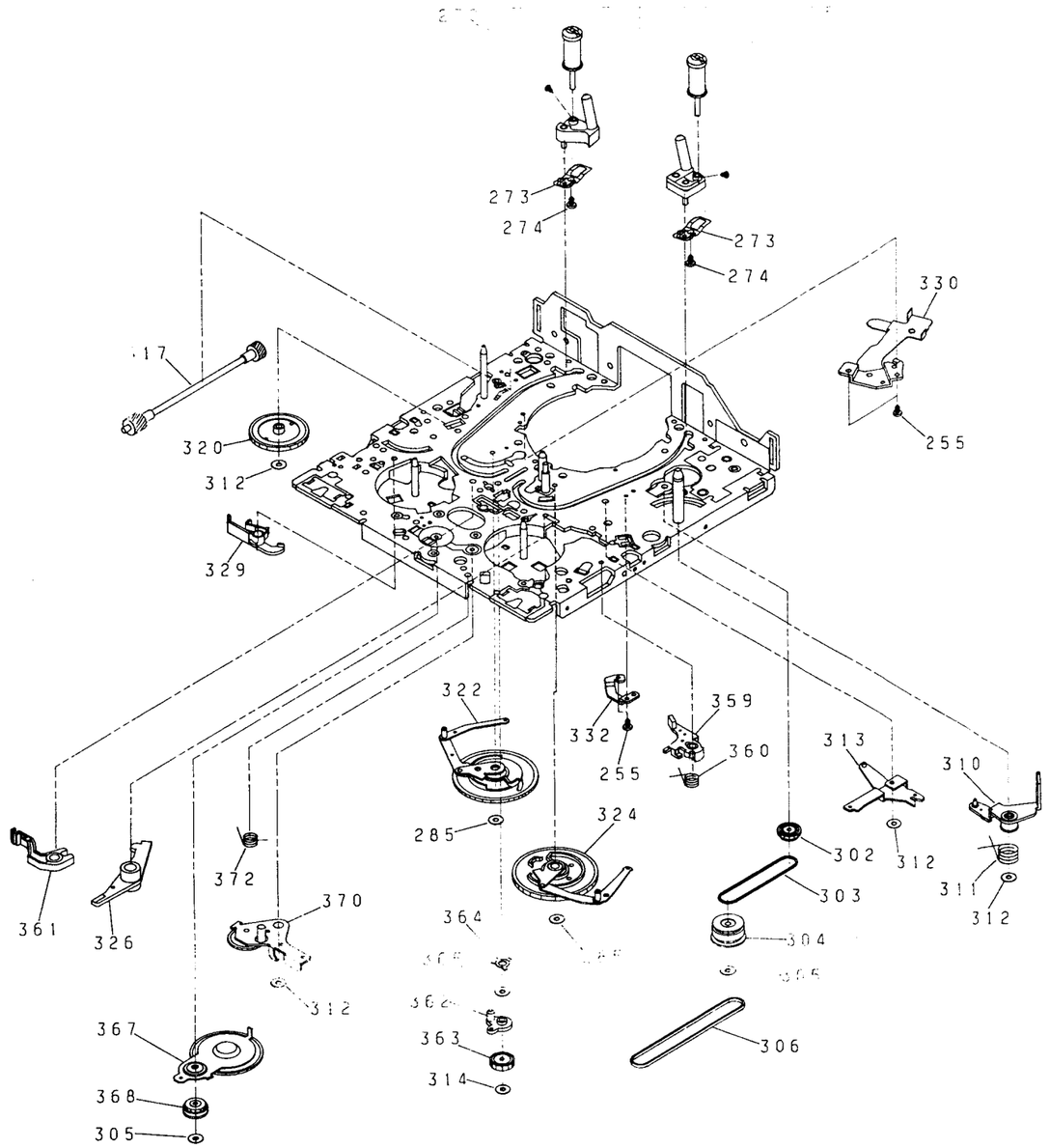
LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
201	69063-213-649	ASSY DRUM;DE-4CPN-SS	
202	67109-0013-00	DRUM-BASE;DE-2A-ADC 12 VP-E807	
203	67094-604-410	SCREW-BH;1+M2X5 FE FZY,WL	
204	A0100-0107	SCREW-MACHINE;BH UP M2 9 SWRCH10A SN1 WHT H0.	
221	67094-604-310	SCREW-BH;3+M2X3 FE FZW	
222	60504-0037-00	SCREW;BH UP M2 L9 SWRCH10A HDZ45 WHT	
230	62654-0022-00	GROUND-BRUSH ASS'Y;SECC/PBSP DE-2A	
300	64769-052-165	CAPSTAN MOTOR ASSY;DE-2A	
315	64763-600-410	LOADING MOTOR ASSY;DE-2	
334	66214-0013-00	SENSOR-DEW ASSY;DURACON+A5052+D87-2+HARNES	
376	66613-614-210	GUARD-GUIDE;A5052 T1.0	
400	66032-603-010	HOUSING ASSY;DE-2HO	
401	65203-606-510	DAMPER-HOUSING;FRT-SS-40	

7-3. Mechanical Parts (2)



LOCA NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
240	65253-612-510	ARM TENSION ASSY;POM+SUS+C3604BD	
241	66604-638-610	HOLDER BAND ASSY;POM+LUMIRROR	
245	67094-604-010	SCREW-TENSION ARM;S45C-HC	
246	65253-609-510	ADJUST-TENSION SPRING;DURACON M90-02(NAT)	
247	66674-644-910	SPRING-TENSION;SUS304-WPB	
248	67334-602-410	WASHER-SLIT;PI 0.75X2.5X0.2T P.S	
250	66614-626-310	PLATE-TENSION BAND;SUS304-CSP T0.3	
255	67094-604-210	SCREW-BH;1+M1.4X1.8 FE FZB	
260	65224-608-110	ROLLER-IMPEDANCE;DURACON M270-44(NAT)	
261	66054-610-210	CAP-IMPEDANCE;DURACON M90-02(NAT)	
262	65114-613-810	SLEEVE-IMPEDANCE;C3604BD	
263	65164-603-510	FLANGE-IMPEDANCE;SUS303	
264	66674-645-010	SPRING-IMPEDANCE;SUS303-WPB	
280	65253-613-410	PINCH ASSY;DE-2	
285	67334-602-110	WASHER-SLIT;PI 1.7X4.0X0.4T P.S	
290	65253-613-610	TAPE GUIDE ASSY;SUS+SPRING	
291	66614-626-510	PLATE-T.G;SUS304-CSP T0.3	
312	67334-602-212	WASHER-SLIT;PI 1.2X3.0X0.3T P.S	
327	65253-613-510	MODE LEVER ASS'Y;POM+SECC+SUS	
335	65294-602-510	MODE SWITCH ASSY;HMW0374-01-010	
336	63005-601-420	FPC S ASSY;DE-2A	
336A	63005-601-120	FPC-REEL S;COPPER+POLYIMIDE(DE-2A)	
337	63005-601-320	FPC T ASSY;DE-2A	
337A	63005-601-020	FPC-REEL T;COPPER+POLYIMIDE(DE-2A)	
338	66604-636-110	HOLDER-T/E SENSOR;DURACON M90-02(BLK)	
339	63324-0147-00	HOLDER-LED;DURACON M90-44 BLK	
340	66614-626-410	PLATE-CASS S/W;SUS304-CSP T0.3	
350	64234-602-811	REEL DISK S ASSY;DE-2	
351	65234-602-911	REEL DISK T ASSY;DE-2	
352	65253-609-910	BRAKE-S;DURACON M90-02(BLK)	
353	65253-610-210	BRAKE-T;DURACON M90-02(BLK)	
354	66674-644-110	SPRING-BRAKE;SUS304-WPB	
355	66054-610-220	CAP-BRAKE;DURACON M90-02(BLK)	
356	65253-609-810	BRAKE-LOADING;DURACON M90-02(BLK)	
357	65253-610-010	LEVER-LB;DURACON M90-02(BLK)	
358	65253-609-630	LEVER-BRAKE;DURACON KT-20 NAT	
373	65252-600-610	STOPPER-IDLER;DURACON M90-02(BLK)	
374	65252-600-510	ARM-STOPPER IDLER;DURACON M90-02(BLK)	
375	66674-643-910	SRPING-STOPPER IDLER;SUS304-WPB	
D301	62599-099-033	SENSOR-REEL;TLP 907Y	
D302	62309-112-045	LED-IR;GL453	
D303	62599-099-033	SENSOR-REEL;TLP 907Y	
Q301	62599-099-032	SENSOR-TOP/END;PT4800	
Q302	62599-099-032	SENSOR-TOP/END;PT4800	
S302	63599-020-056	DETECTOR-RECOGNITION;JPS1320-0101	
S903	63543-600-030	SWITCH-CASSETTE;SPPB31039A	

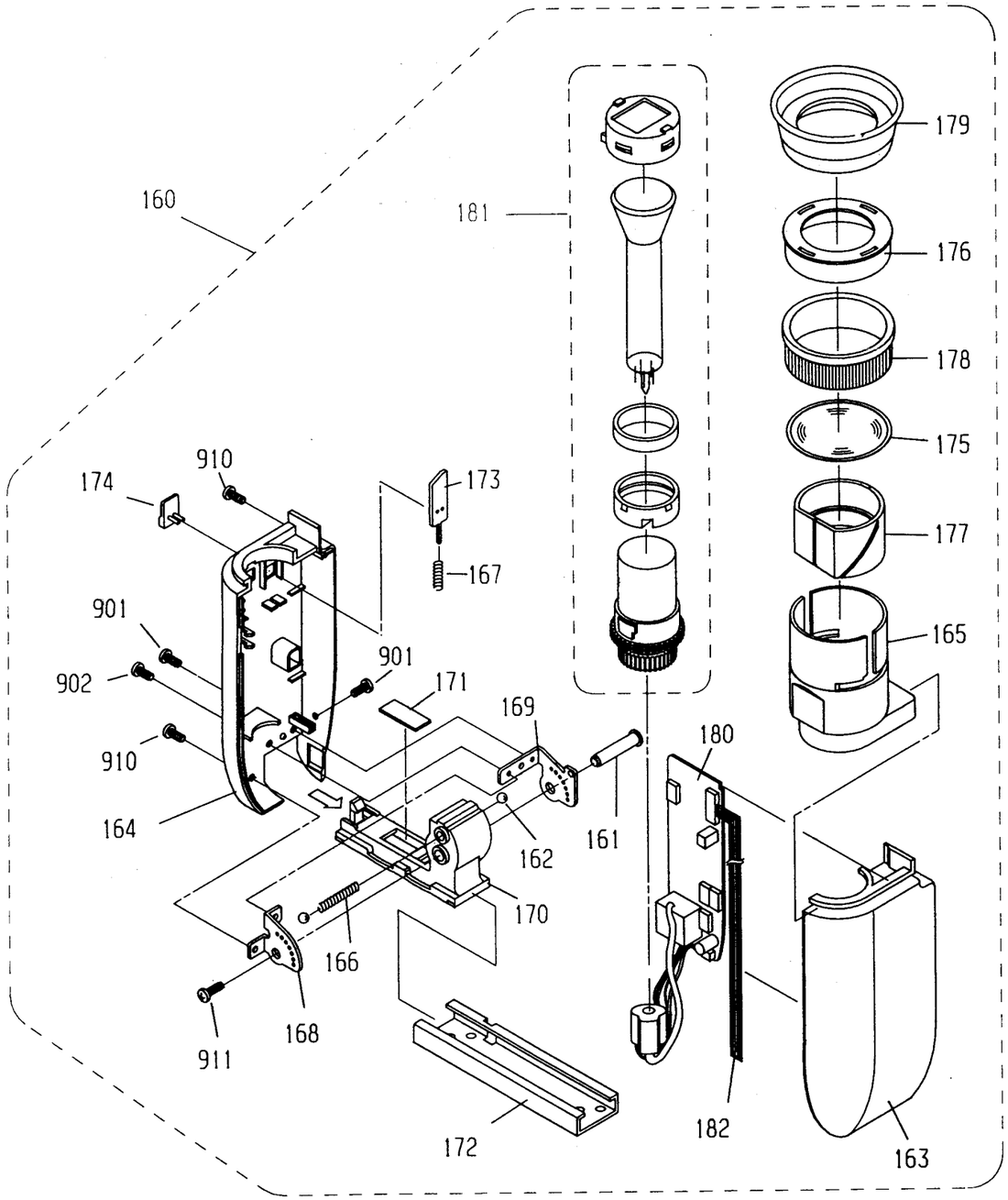
7-4. Mechanical Parts (3)



LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
255	67094-604-210	SCREW-BH;1+M1.4X1.8 FE FZB	
270	65223-604-410	FULL P/B S ASSY;DE-2	
273	66673-627-710	PLATE-POLE BASE;PBSP T0.1	
274	67094-603-910	SCREW-PLATE P.B;S45C-HC	
275	65223-604-310	FULL P/B T ASSY;DE-2	
285	67334-602-110	WASHER-SLIT;PI 1.7X4.0X0.4T P.S	
302	65204-613-810	CAPSTAN GEAR ASSY;NYLON12+OILLESS METAL	
303	65273-600-210	BELT-TIMING CAP;POLY URETHAN(NAT)	
304	61504-0010-00	PULLEY-RELAY ASSY;POM/OILLESS METAL B/WHT	
305	67334-603-310	WASHER-SLIT;PI0.85X2.5X0.2T P.S	
306	65273-600-410	BELT-TIMING IDLER;POLY URETHAN(BLK)	
310	65254-630-610	PINCH LEVER ASS'Y;SECC+SUS+C3604BD	
311	66674-643-610	SPRING-PINCH LEVER;SUS304-WPB	
312	67334-602-212	WASHER-SLIT;PI 1.2X3.0X0.3T P.S	
313	65254-630-510	LOADING LEVER ASS'Y;SECC+SUS	
314	67334-602-211	WASHER-SLIT;PI 1.2X3.0X0.25T RUMIRROR(RED)	
317	65204-616-510	WORM-ASSY;DE-2	
320	65203-607-210	GEAR-DRIVE CAM;DURACON M90-02(NAT)	
322	65203-606-610	CAM S ASSY;POM+SUS+C3604BD	
324	65203-606-710	CAM T ASSY;POM+SUS+C3604BD	
326	65254-627-510	LEVER-CAM BRAKE;DURACON M90-02(NAT)	
329	65253-610-610	LEVER-EJECT;DURACON M90-02(NAT)	
330	66653-602-710	SUPPORT S ASS'Y;SECC+SUS	
332	66654-616-210	SUPPORT-T;SECC T0.8	
359	65254-632-610	SOFT BRAKE ASSY;PBT+FELT	
360	66674-643-810	SPRING-SOFT BRAKE;SUS304-WPB	
361	65252-600-310	BRAKE-UL;DURACON M90-02(BLK)	
362	65254-627-410	ARM-UL.B;DURACON M90-02(BLK)	
363	65204-614-410	GEAR-UL.B;DURACON M90-02(BLK)	
364	66674-626-010	PLATE-SPRING BRAKE;PBSP T0.1	
365	67304-602-710	WASHER-PLAIN;PI1.6X3.2X0.13T P.S	
367	65154-600-311	IDLER ASSY;DE-2	
368	65204-613-910	GEAR DRIVE IDLER ASSY;POM+OILLESS METAL	
370	65253-613-710	LB GEAR ASSY;SECC+NYLON+SUS	
372	66674-644-010	SPRING-LB;SUS304-WPB	

http://www.ManualsCenter.com

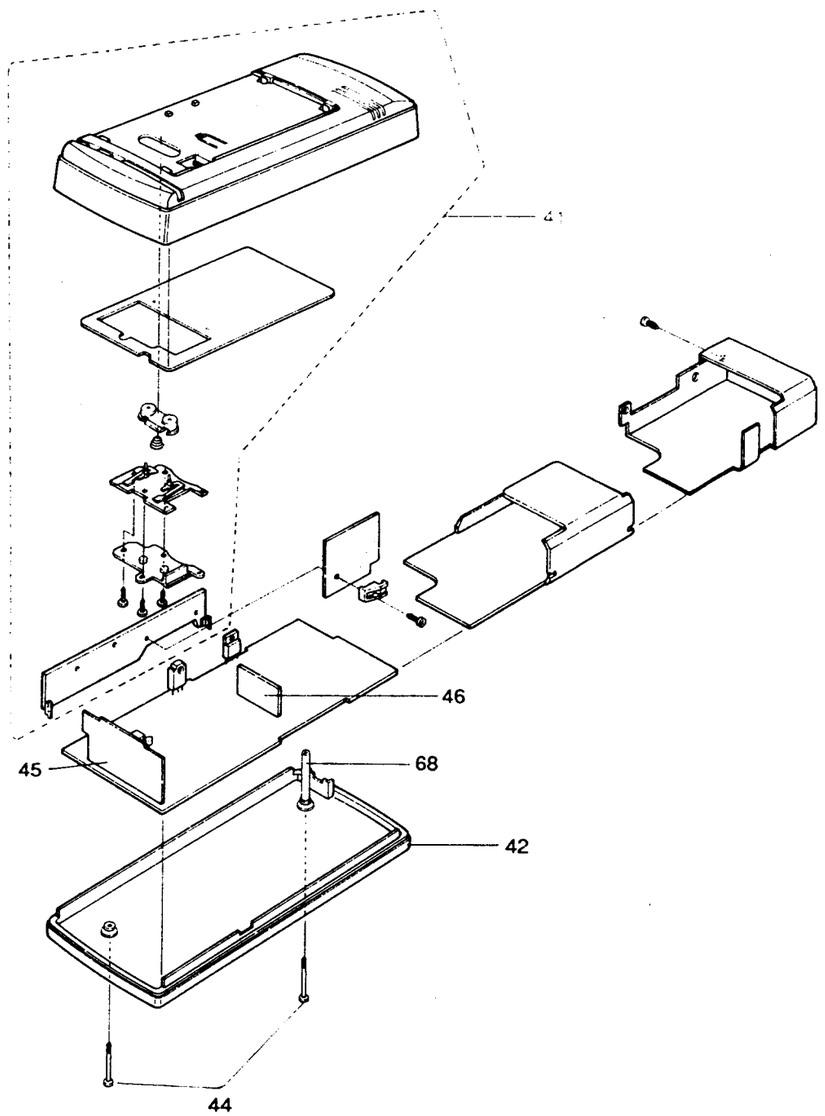
7-5. E.V.F



LOCA NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
160	*EE-807-EXP	ASSY EVF;S8C-3 EVF(VP-E807/EXP)	
161	61414-0048-00	BUSH-RAIL;BSBM ID2 L12	
162	61464-0002-00	BALL-STEEL;STS D3 VP-E807	
163	62032-0092-00	CASE-TOP EVF;ABS94V0 BLK	
164	62032-0093-00	CASE-BOT EVF;ABS94V0 BLK	
165	62213-0053-00	BODY-EYE LENS;ABS94HB BLK VP-E807 PI17	
166	62724-0146-00	SPRING-RAIL;CS STS PI0.8 D2.5 L10	
167	62724-0151-00	SPRING-KNOB EVF;ES STS304 WPB PI0.3	
168	63014-0127-00	BRACKET-RAIL EVF A;STS T1.0	
169	63014-0128-00	BRACKET-RAIL EVF B;STS T1.0	
170	63083-0019-00	RAIL-EVF;POM	
171	63314-0082-00	COVER-RAIL;ABS94HB T0.3 BLK	
172	63324-0134-00	HOLDER-RAIL EVF;SPG T1.0 BLK	
173	63334-0013-00	CLAMP-BODY EYE LENS;ABS94HB BLK	
174	64084-0212-00	KNOB-EVF;ABS94HB BLK VP-E807	
175	66463-604-400	LENS-EVF;PMMA CLR	
176	66603-613-810	HOLDER-EYE CUP;ABS 94HB(HF380 ABS740)	
177	66603-613-910	HOLDER-EVF LENS;ABS 94HB(HF380 ABS740)	
178	67623-631-610	RING-EVF LENS;ABS 94HB(HF380 ABS740)	
179	67873-601-110	EYE CUP;SILICON BLK	
180	69063-213-505	ASSY EVF BOARD;VP-E807	
181	69063-213-873	ASSY CRT;VP-E807	
182	66049-0036-00	FPC-EVF;FPC T0.48 VP-E807 210X30-04	
901	67094-120-230	SCREW-BH;M2X3 FE FZB	
902	67094-120-240	SCREW-BH;M2X4 FE FZB	
910	67128-521-206	SCREW-TAP TITE BH;3B+2X6 FE FZB	
911	67098-120-052	SCREW-BH;+M2X6 FE FZY	

http://www.ManualsCenter.com

7-6. AC Power Adaptor

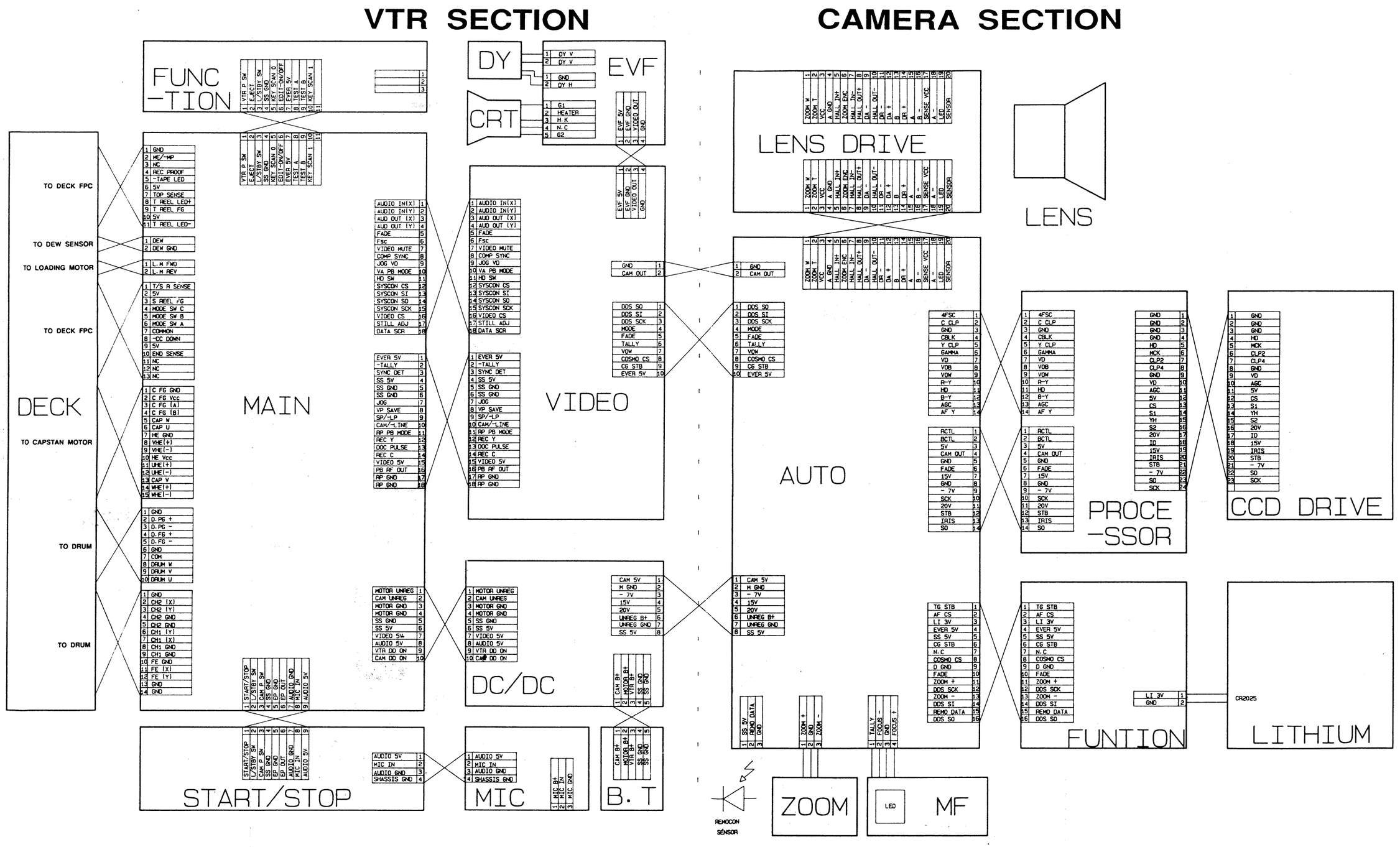


LOCA.NO	PART-NUMBER	DESCRIPTION;SPECIFICATION	REMARK
41	69063-213-495	ASSY CASE TOP;VP-E807	
	69063-213-638	ASSY CASE TOP;VKR4626/QUELLE	
	69063-213-646	ASSY CASE TOP;VP-E807/REX, SELE	
42	66032-603-110	CASE-BOTTOM;ABS 94V0	
44	60504-0053-00	SCREW-TAP TITE;PWH + TB M3 L25 SWRCH10A BLK	
45	69063-213-614	ASSY SUB1 BOARD;AA-E1N/P	
46	69063-213-615	ASSY SUB2 BOARD;AA-E1N/P	
68	67354-600-810	RING-GUIDE;ABS 94V0	

8. BLOCK DIAGRAMS

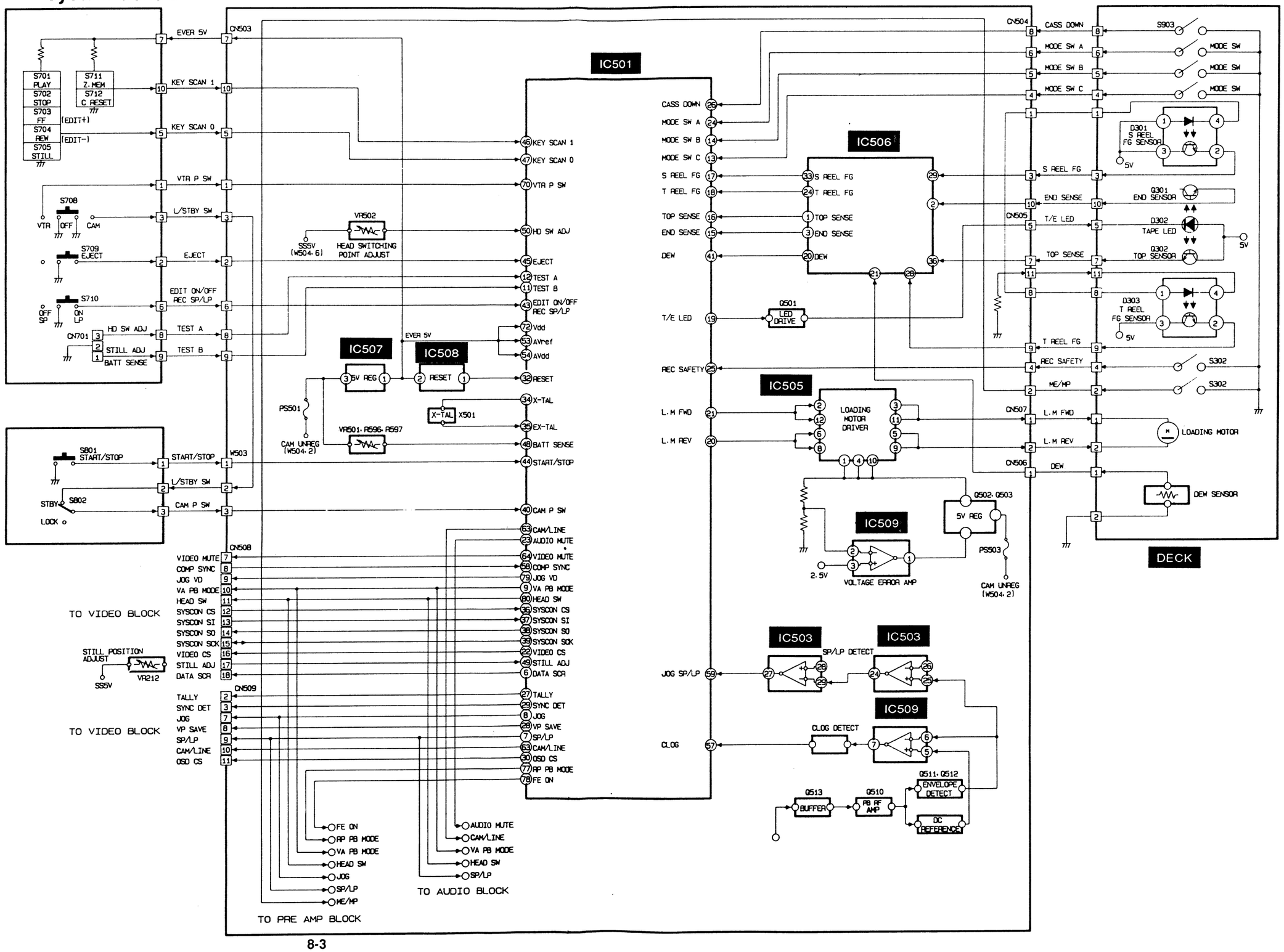
		Page
8-1.	Total Wiring Diagram	8-2
8-2.	System Control	8-3
8-3.	Servo Drum Control	8-4
8-4.	Servo Capstan Control	8-5
8-5.	Video	8-6
8-6.	Pre-Amp	8-7
8-7.	Audio	8-7
8-8.	Drive	8-8
8-9.	Auto	8-9
8-10.	Process	8-10

8-1. Total Wiring Diagram



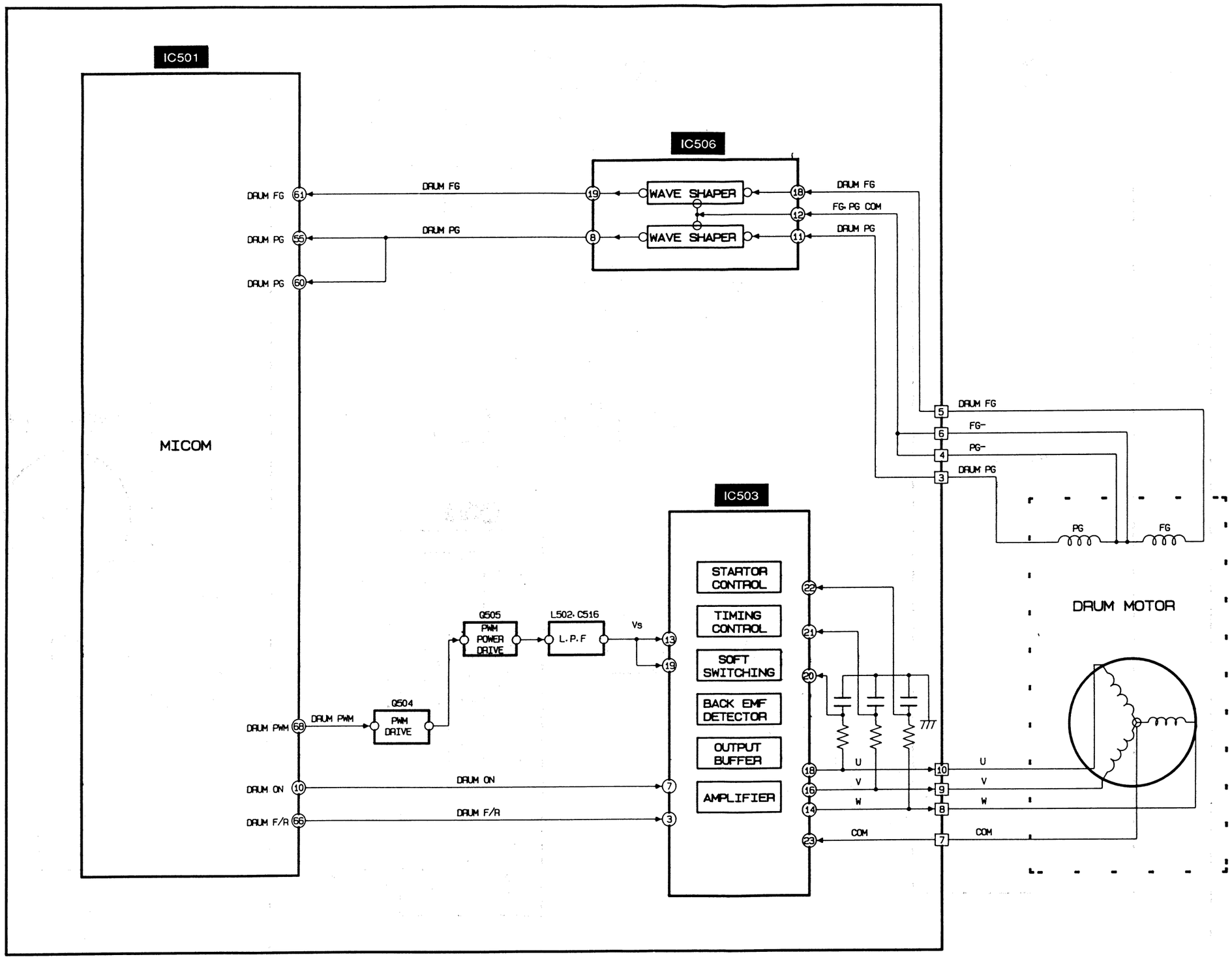
http://www.ManualsCenter.com

8-2. System Control



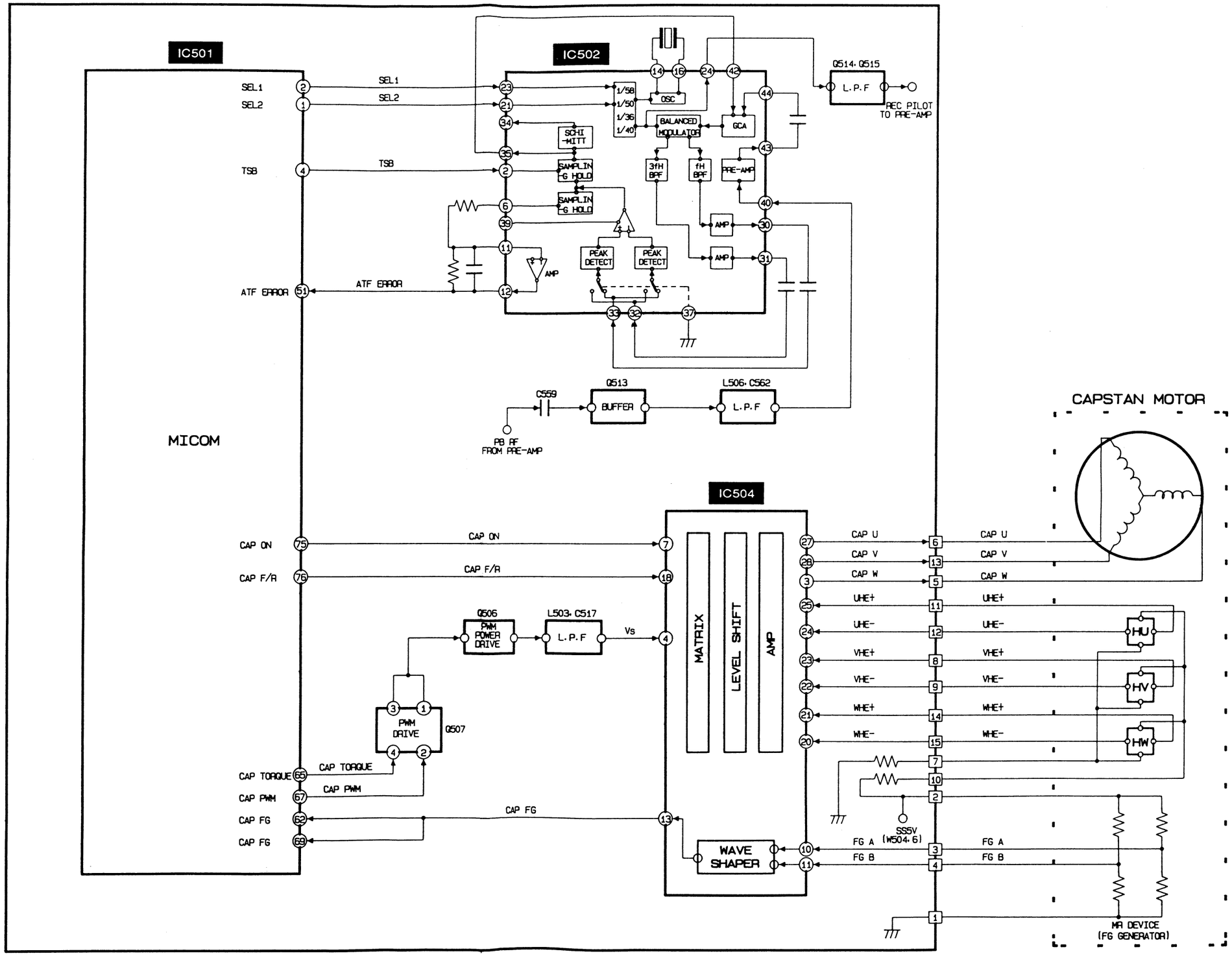
http://www.ManualsCenter.com

8-3. Servo Drum Control



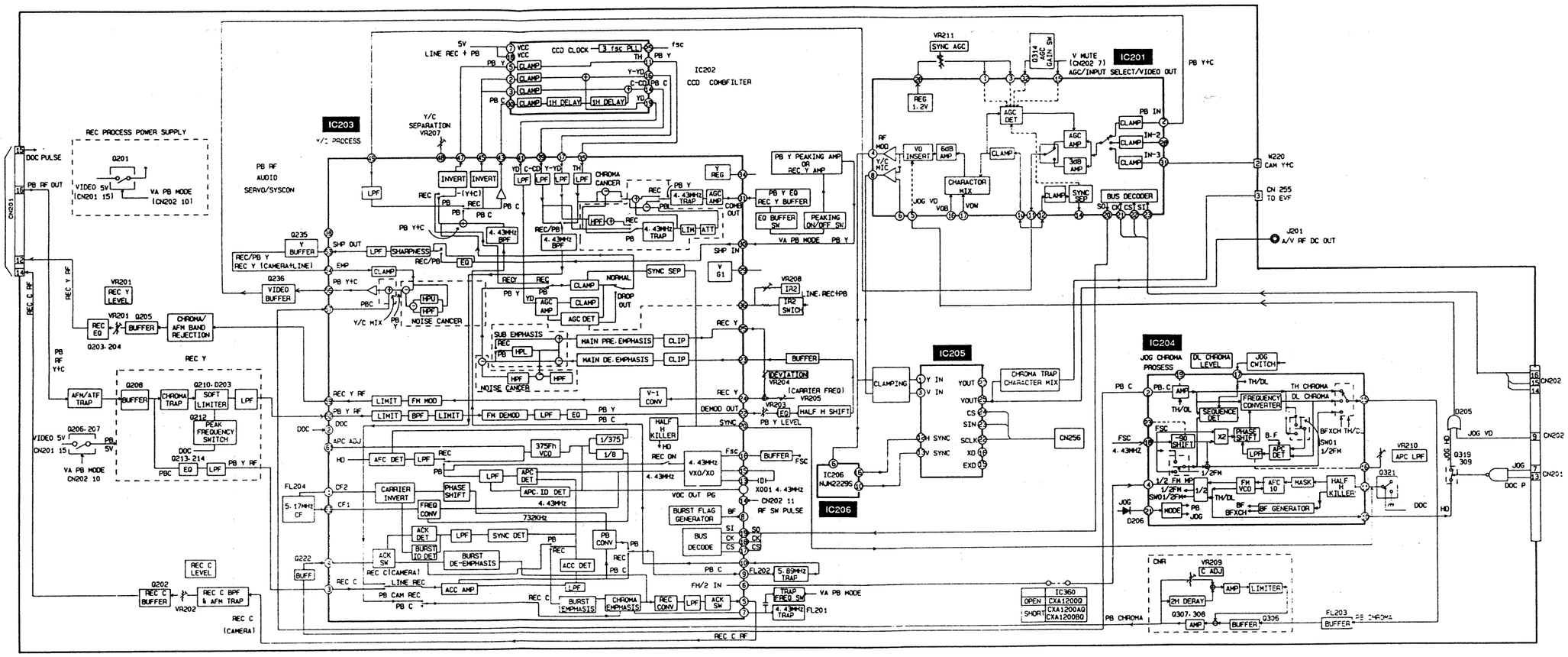
http://www.ManualsCenter.com

8-4. Servo Capstan Control



http://www.ManualsCenter.com

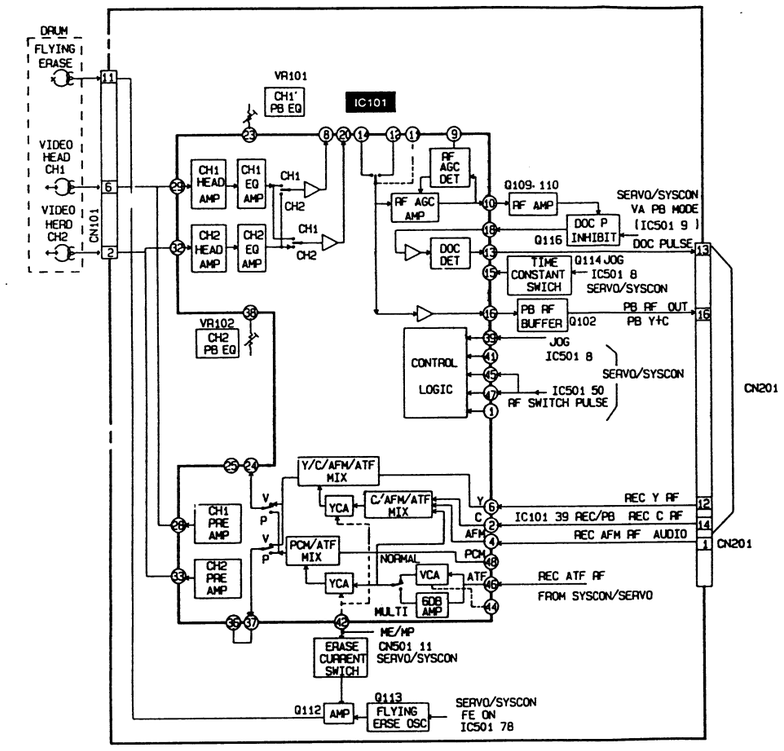
8-5. Video



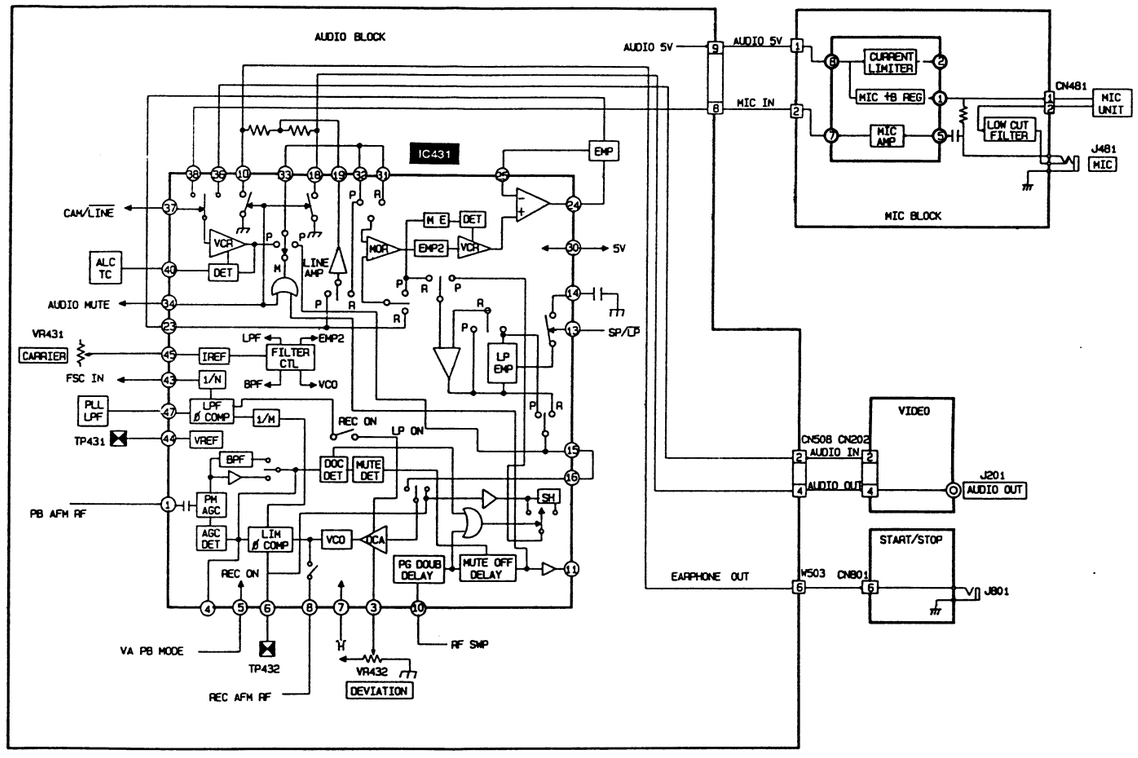
8-6

http://www.ManualsCenter.com

8-6. Pre-Amp



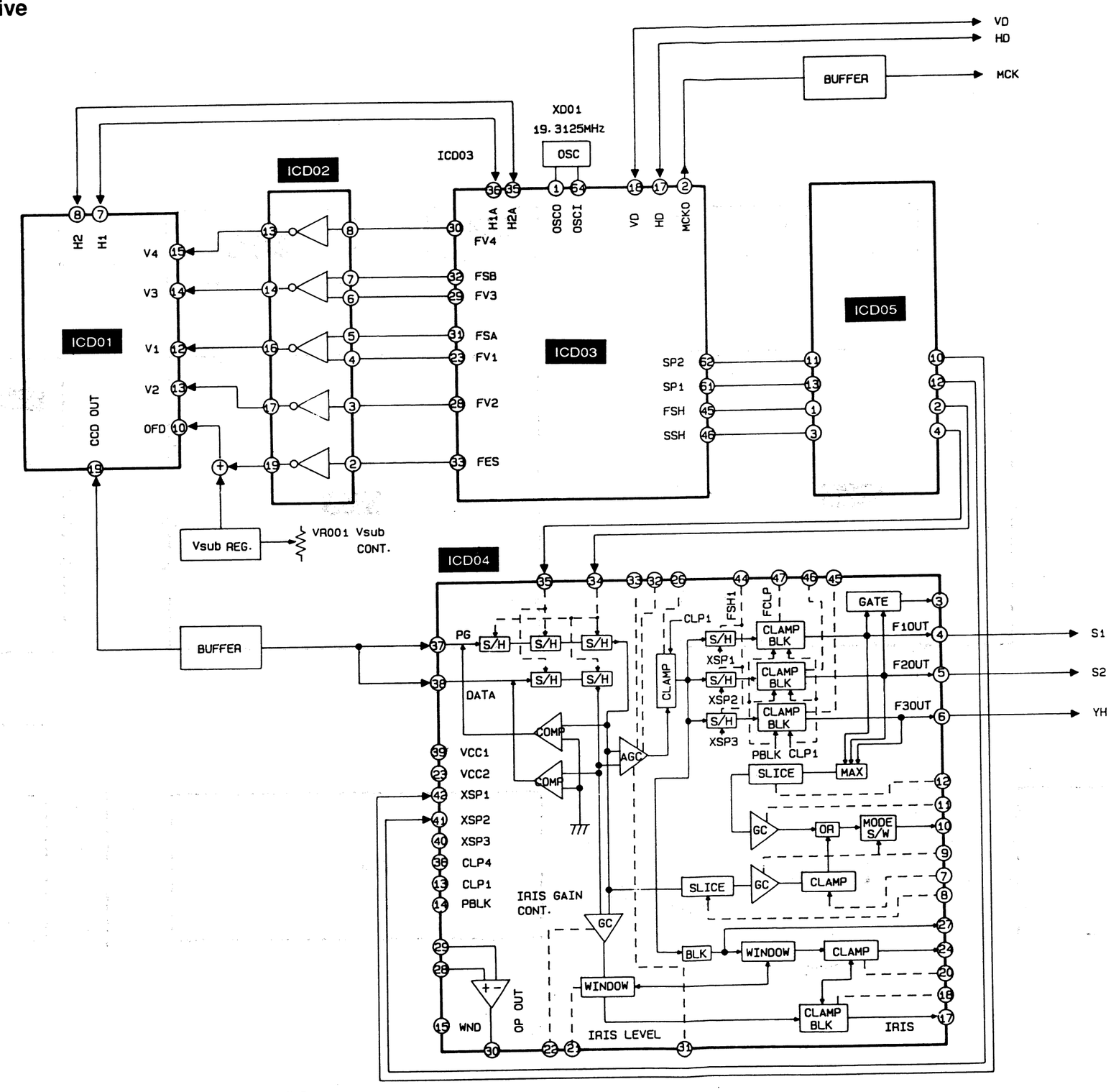
8-7. Audio



8-7

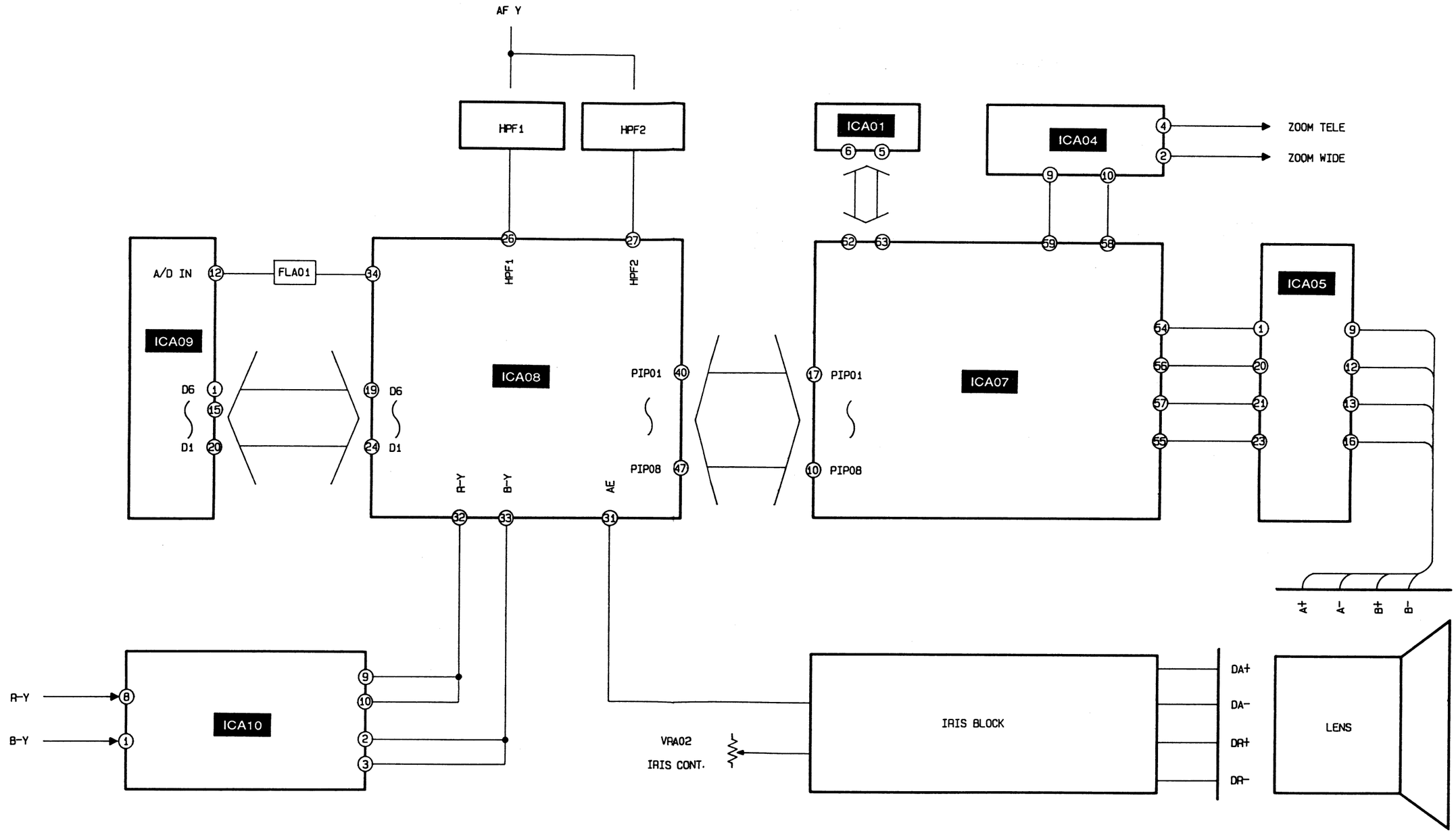
http://www.ManualsCenter.com

8-8. Drive



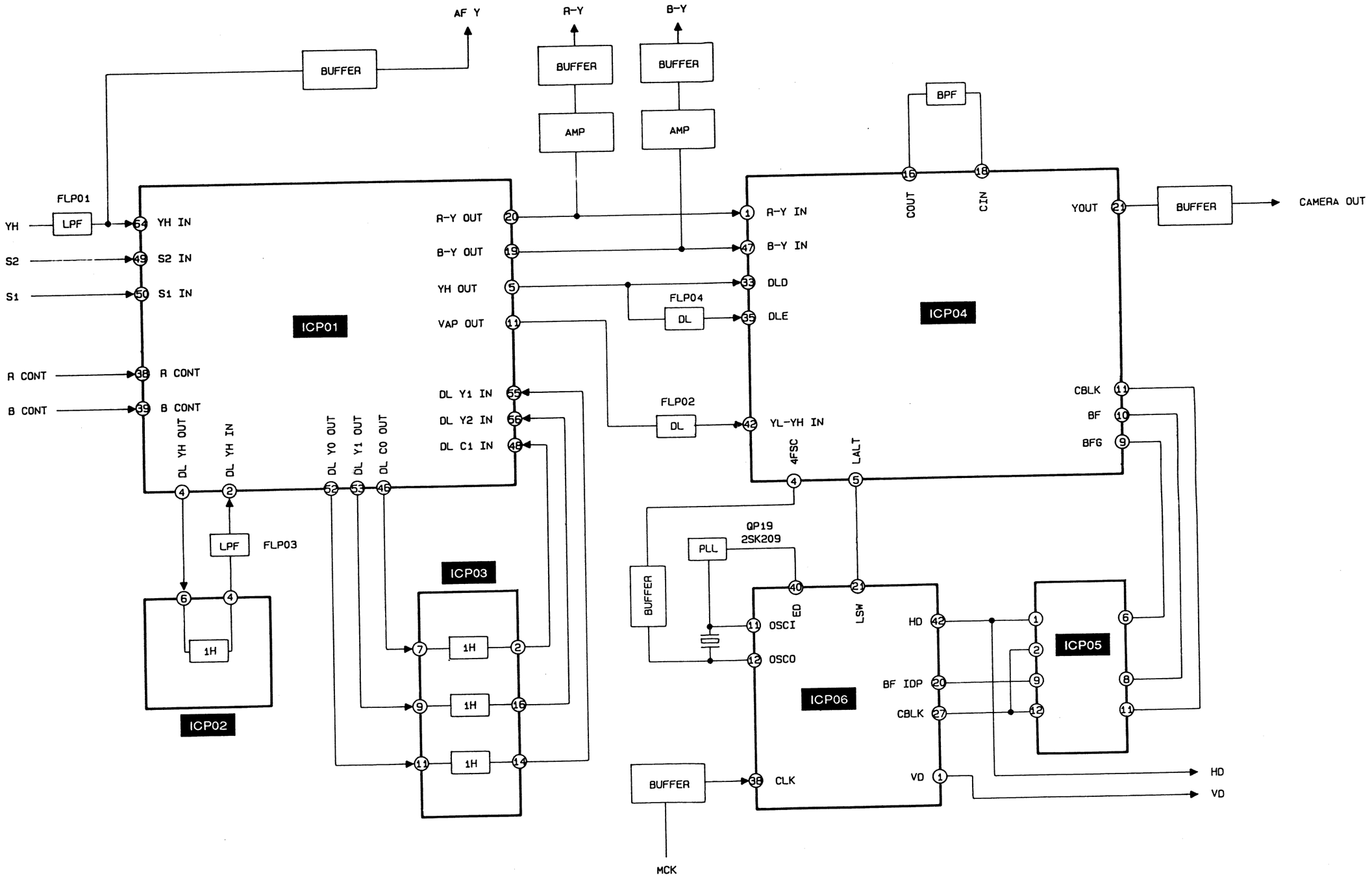
http://www.ManualsCenter.com

8-9. Auto



http://www.ManualsCenter.com

8-10. Process

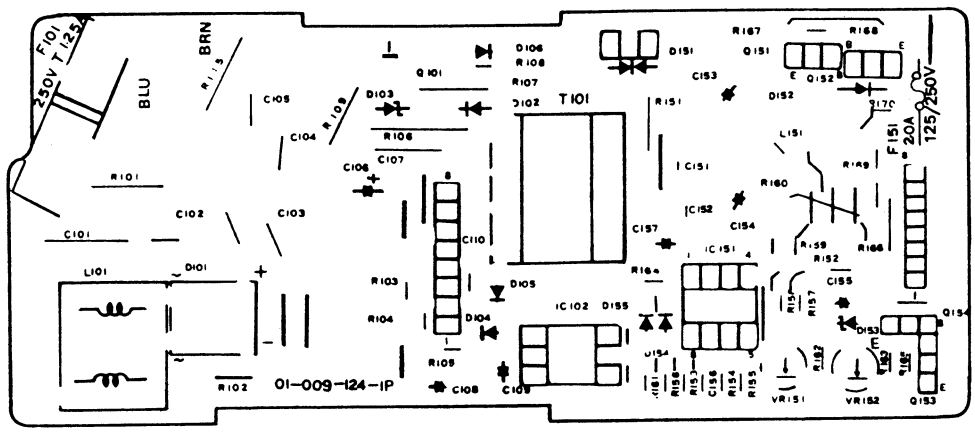


http://www.ManualsCenter.com

9. CIRCUIT BOARDS

		Page
9-1.	AC Power Adaptor	9-2
9-2.	DC/DC Converter	9-2
9-3.	MIC	9-4
9-4.	Start/Stop	9-4
9-5.	VTR Function	9-6
9-6.	Main	9-8
9-7.	Video	9-10
9-8.	CAMERA Function	9-12
9-9.	E.V.F	9-12
9-10.	Drive	9-14
9-11.	Auto	9-16
9-12.	Process	9-18

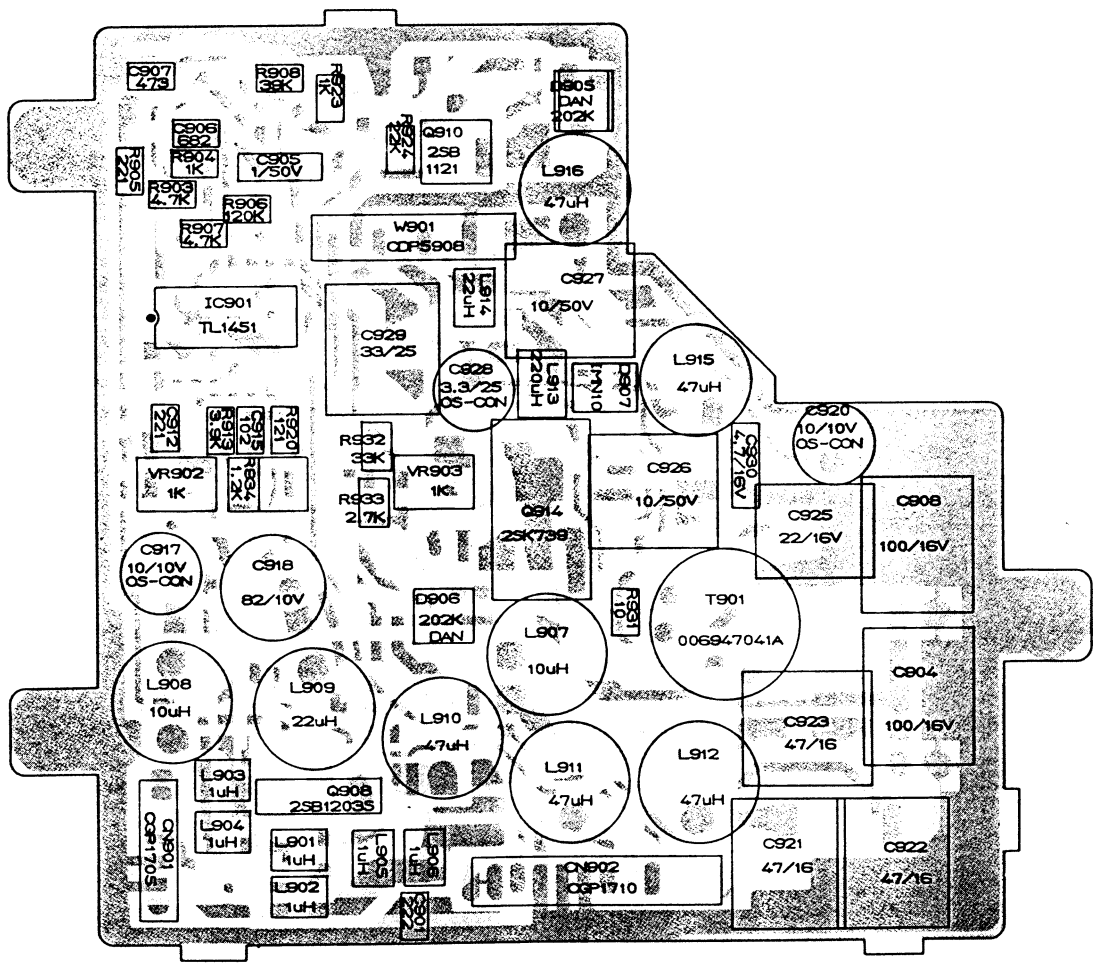
9-1. AC Power Adaptor (Top Side)



9-2. DC/DC Converter (Top Side)

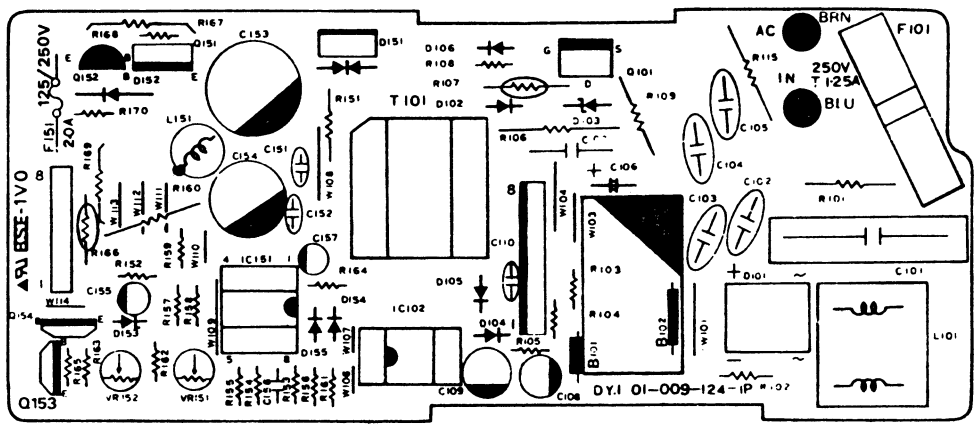
: Pattern from the side which enables seeing

: Pattern of the rear side



http://www.ManualsCenter.com

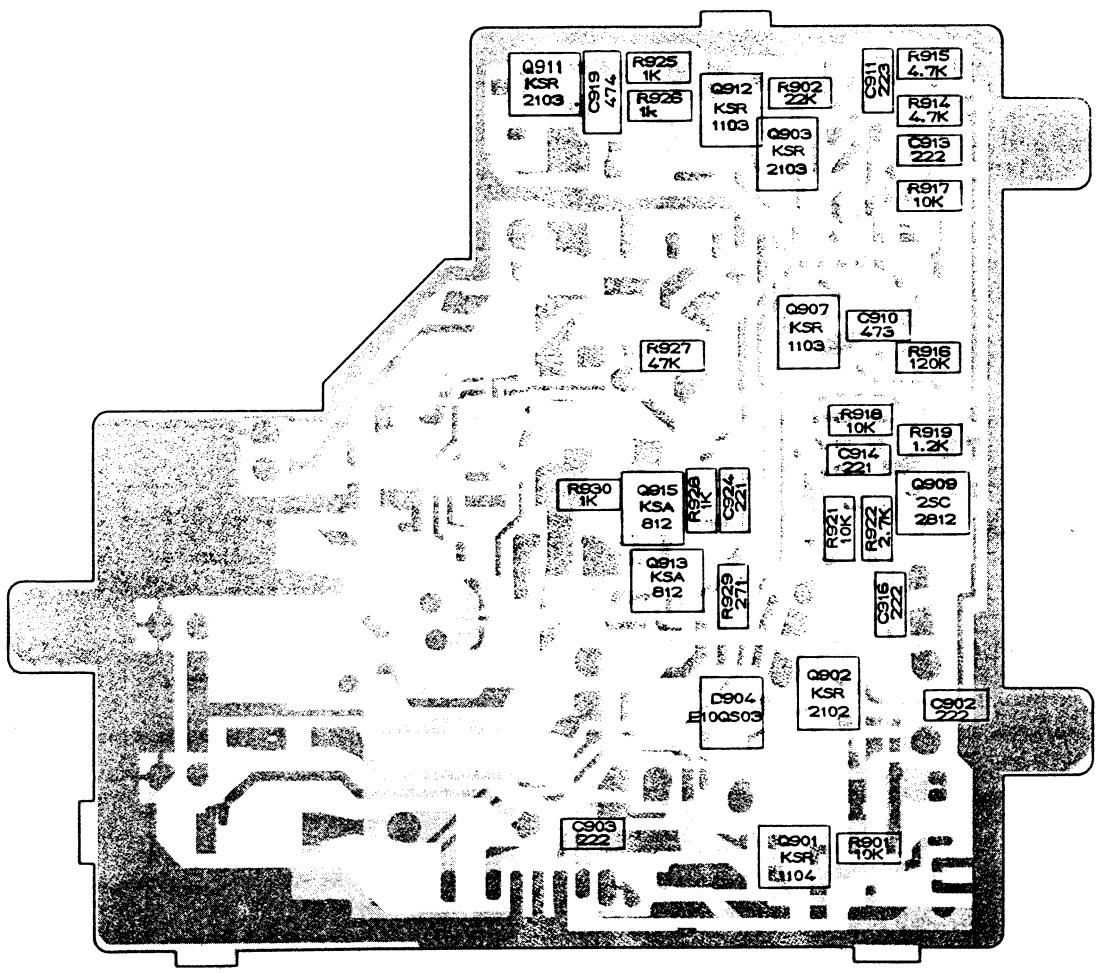
9-1. AC Power Adaptor (Bottom Side)



9-2. DC/DC Converter (Bottom Side)

: Pattern from the side which enables seeing

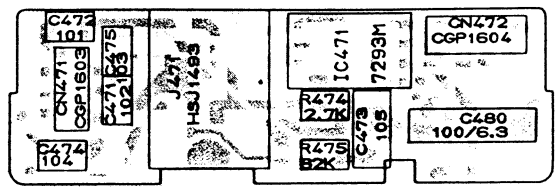
: Pattern of the rear side



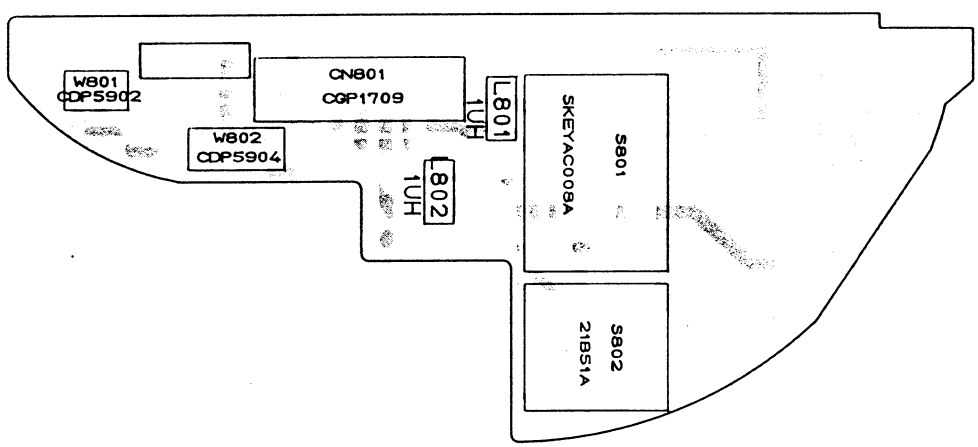
9-3. MIC (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side



9-4. Start/Stop (Top Side)

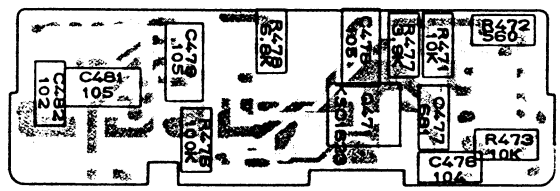


http://www.ManualsCenter.com

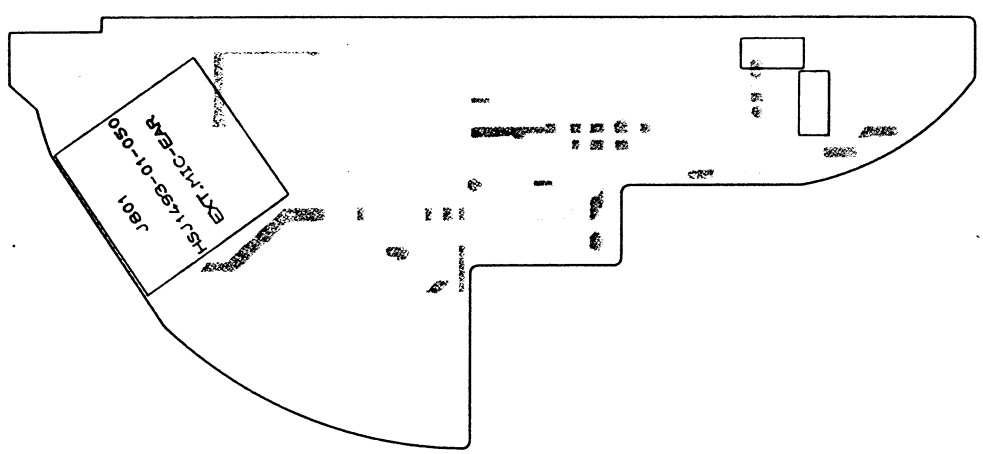
9-3. MIC (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side



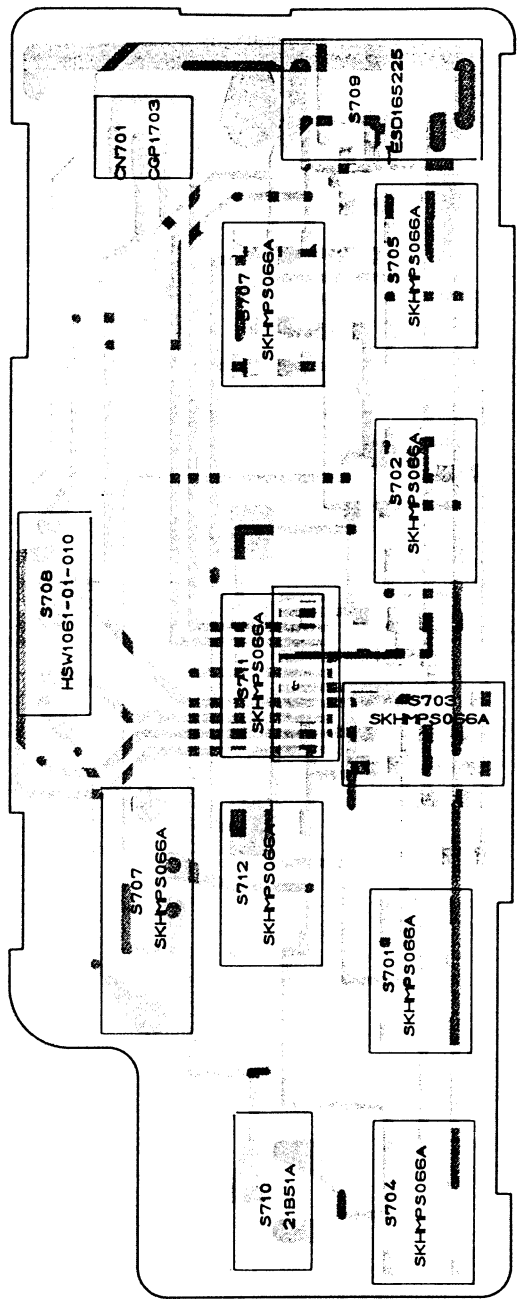
9-4. Start/Stop (Bottom Side)



9-5. VTR Function (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

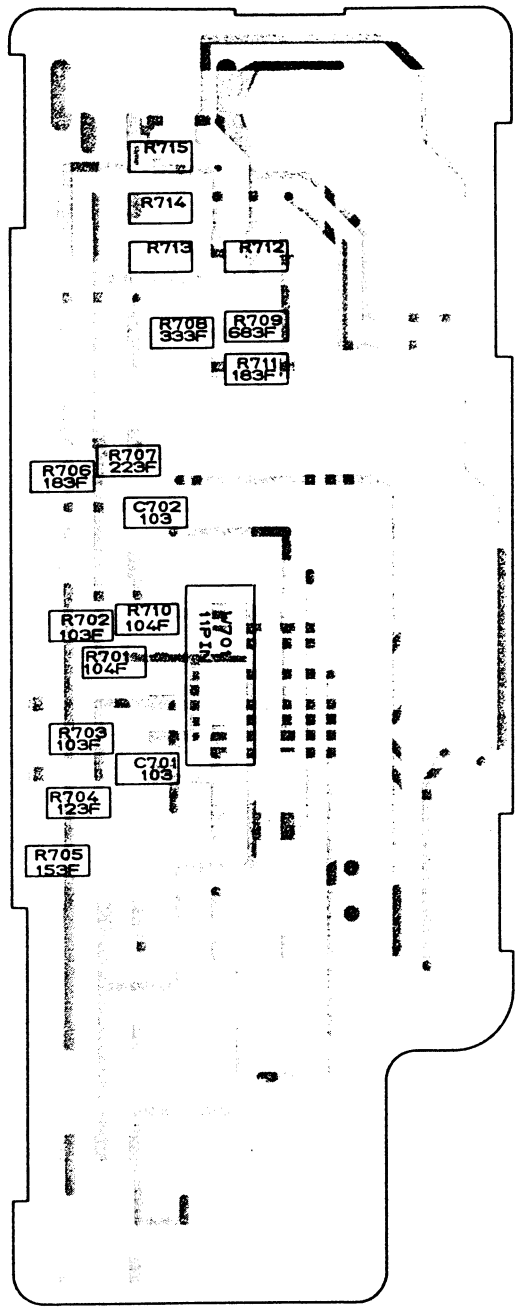


http://www.ManualsCenter.com

9-5. VTR Function (Bottom Side)

: Pattern from the side which enables seeing

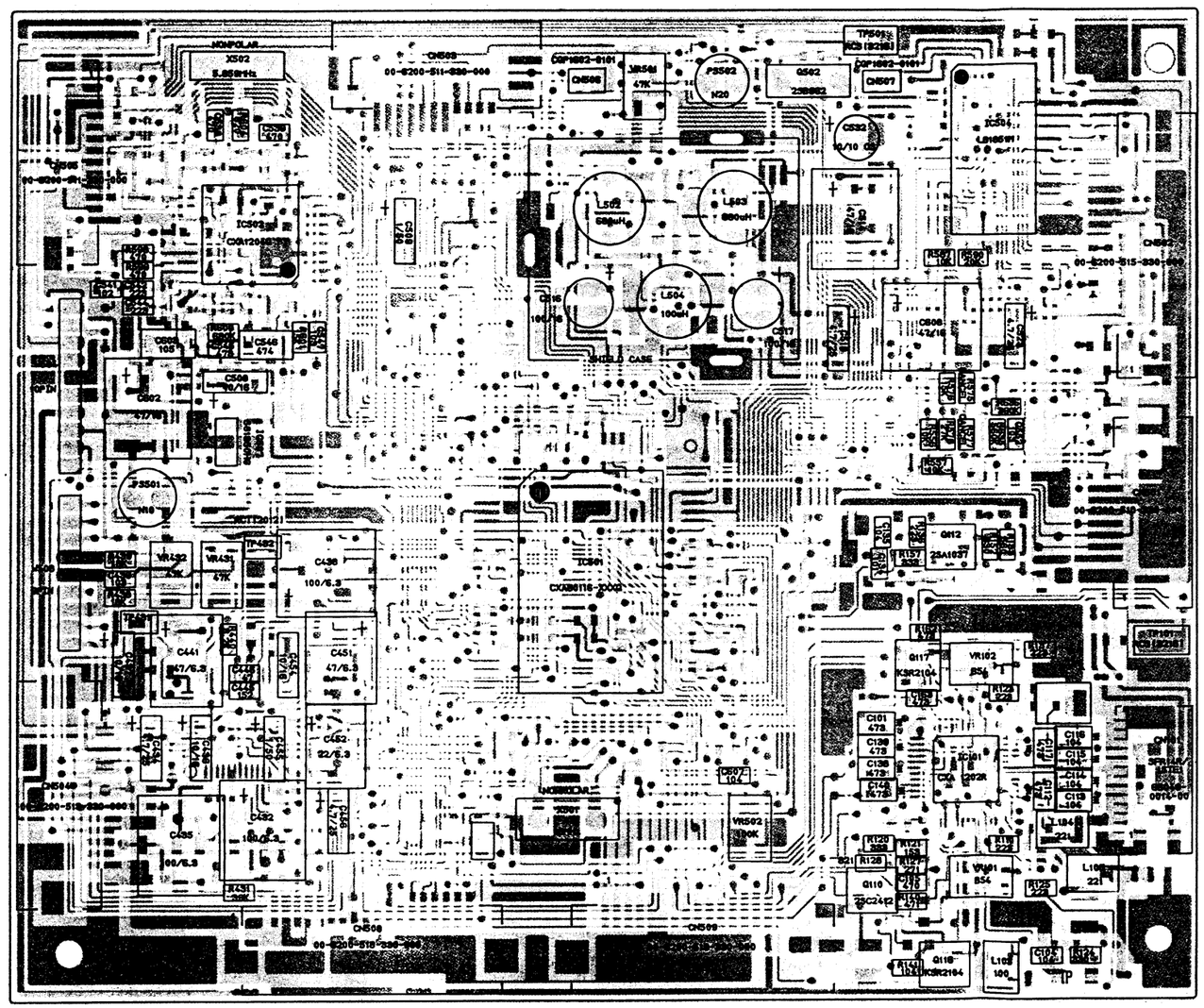
: Pattern of the rear side



9-6. Main (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

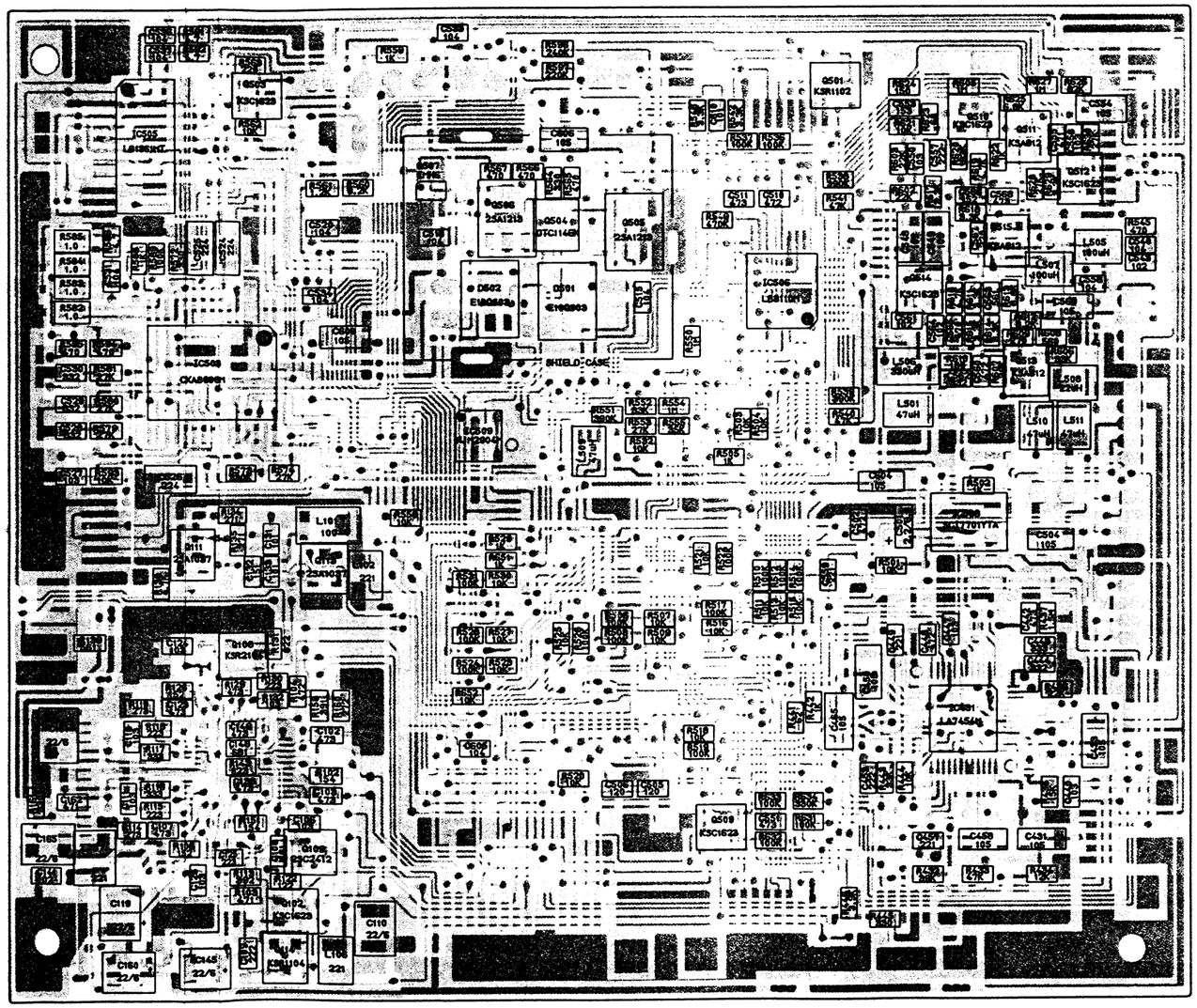


http://www.ManualsCenter.com

9-6. Main (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

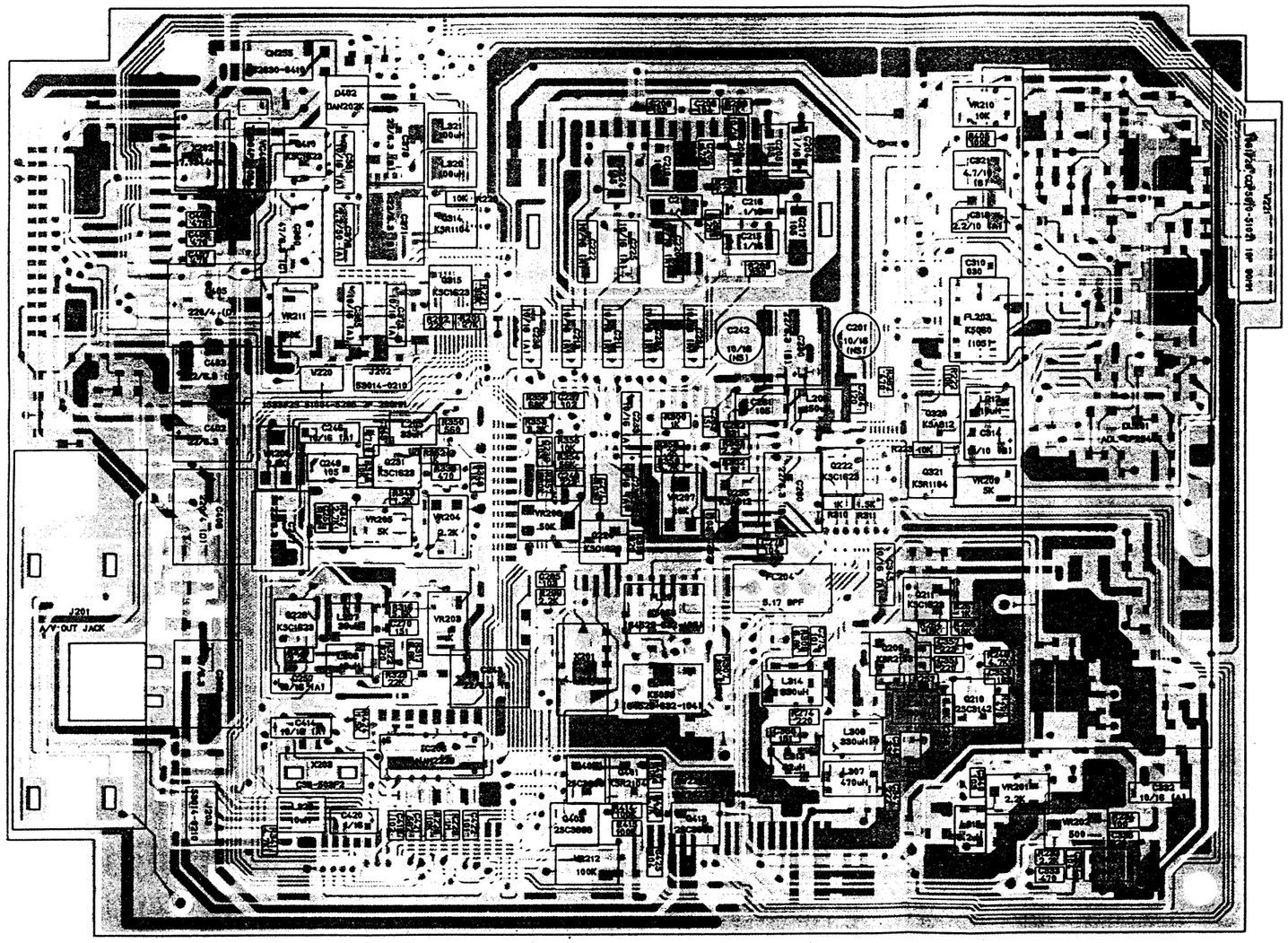


http://www.ManualsCenter.com

9-7. Video (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

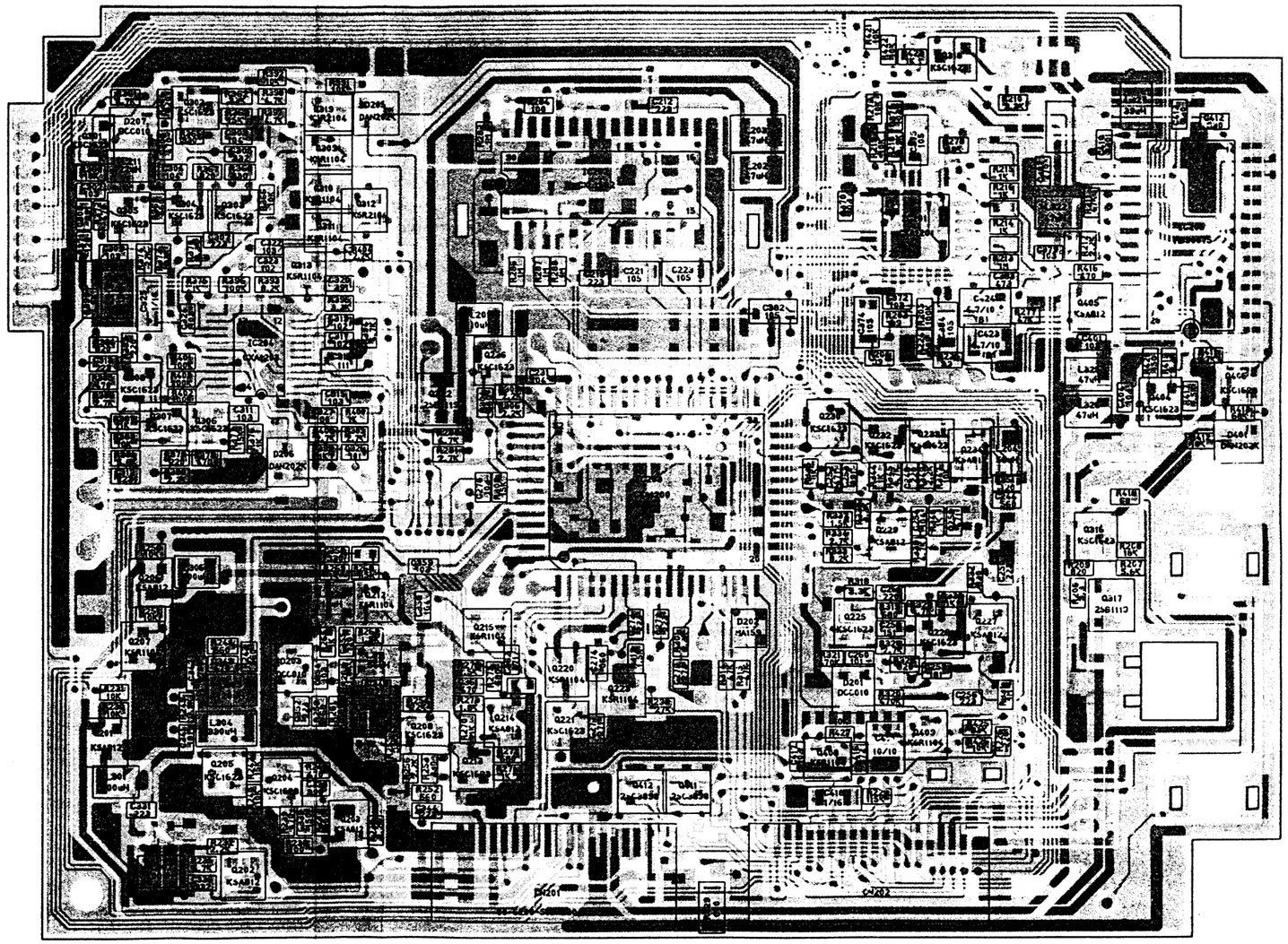


http://www.ManualsCenter.com

9-7. Video (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

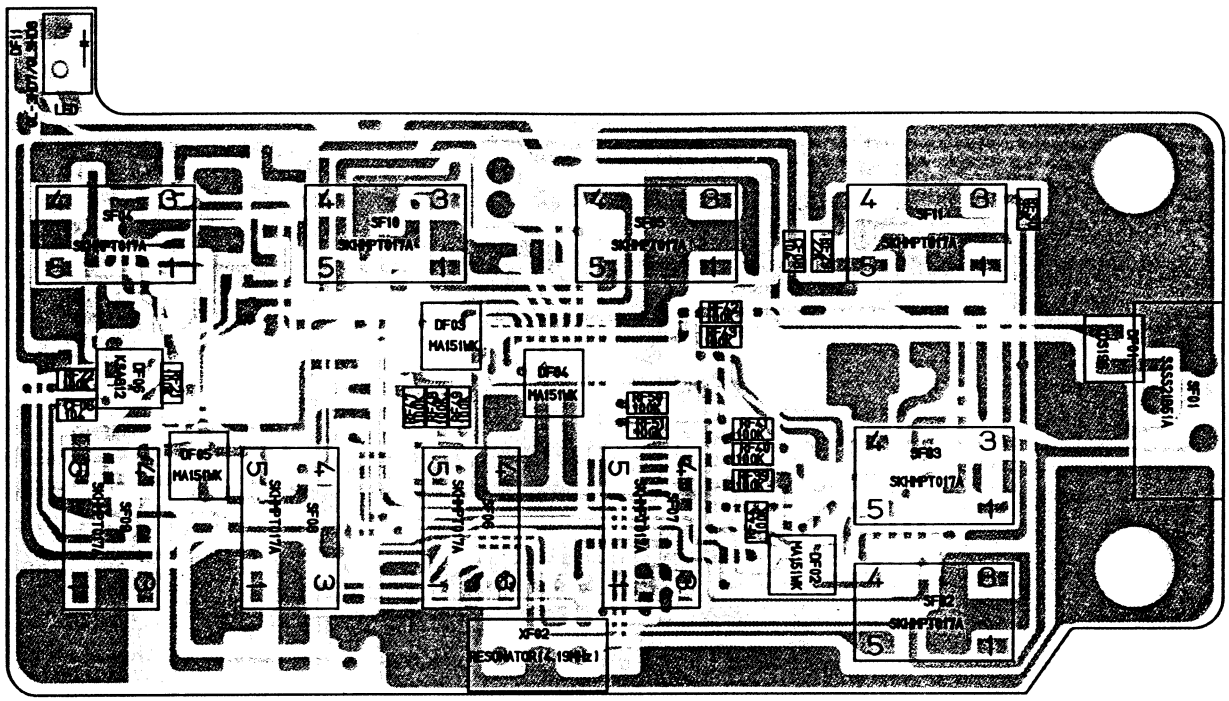


http://www.ManualsCenter.com

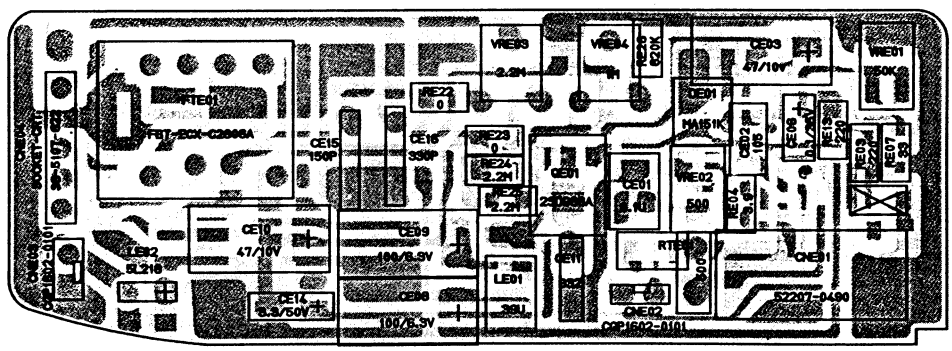
9-8. CAMERA Function (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side



9-9. E.V.F (Top Side)

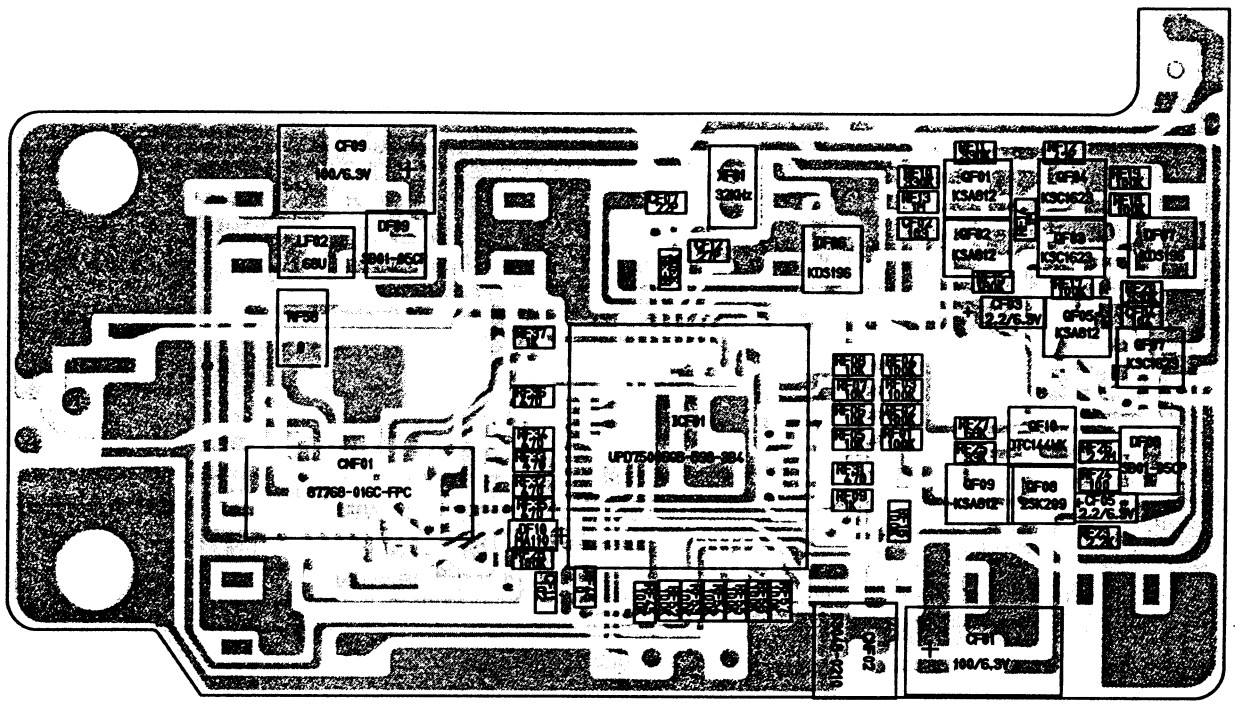


http://www.ManualsCenter.com

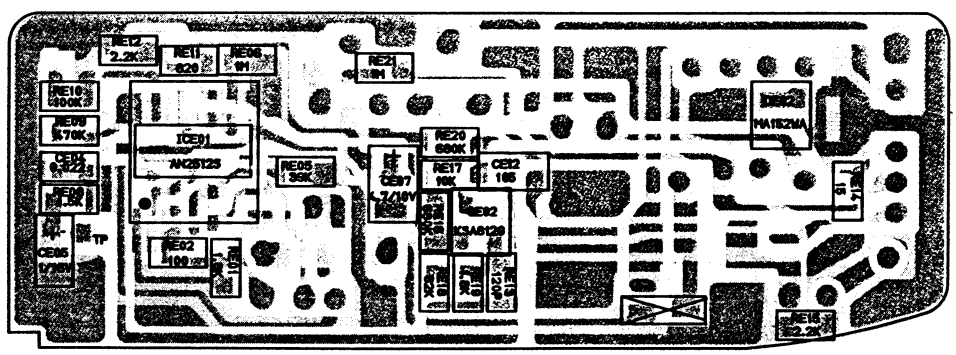
9-8. CAMERA Function (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side



9-9. E.V.F (Bottom Side)

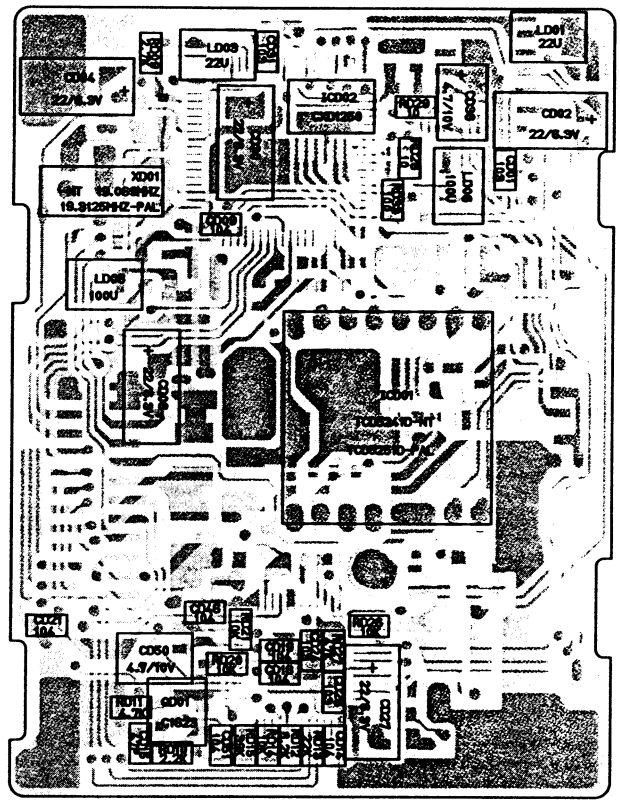


http://www.ManualsCenter.com

9-10. Drive (Top Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

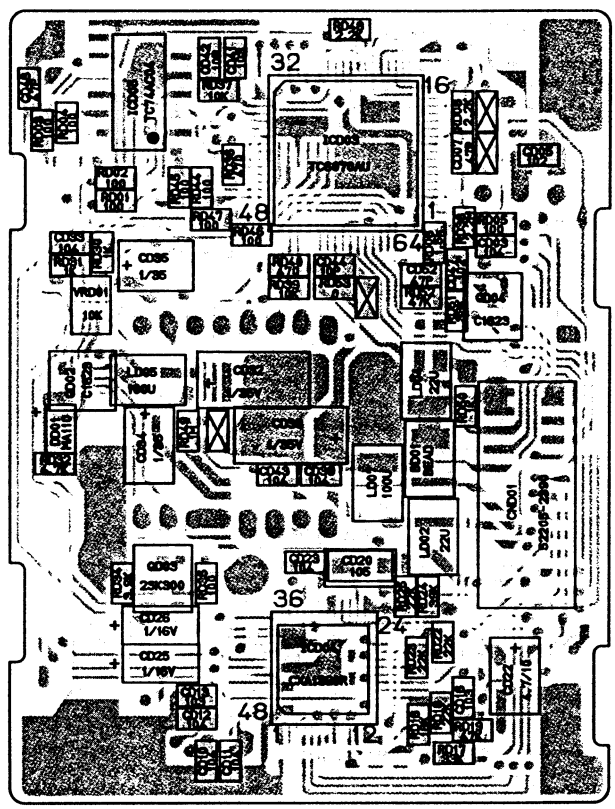


http://www.ManualsCenter.com

9-10. Drive (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

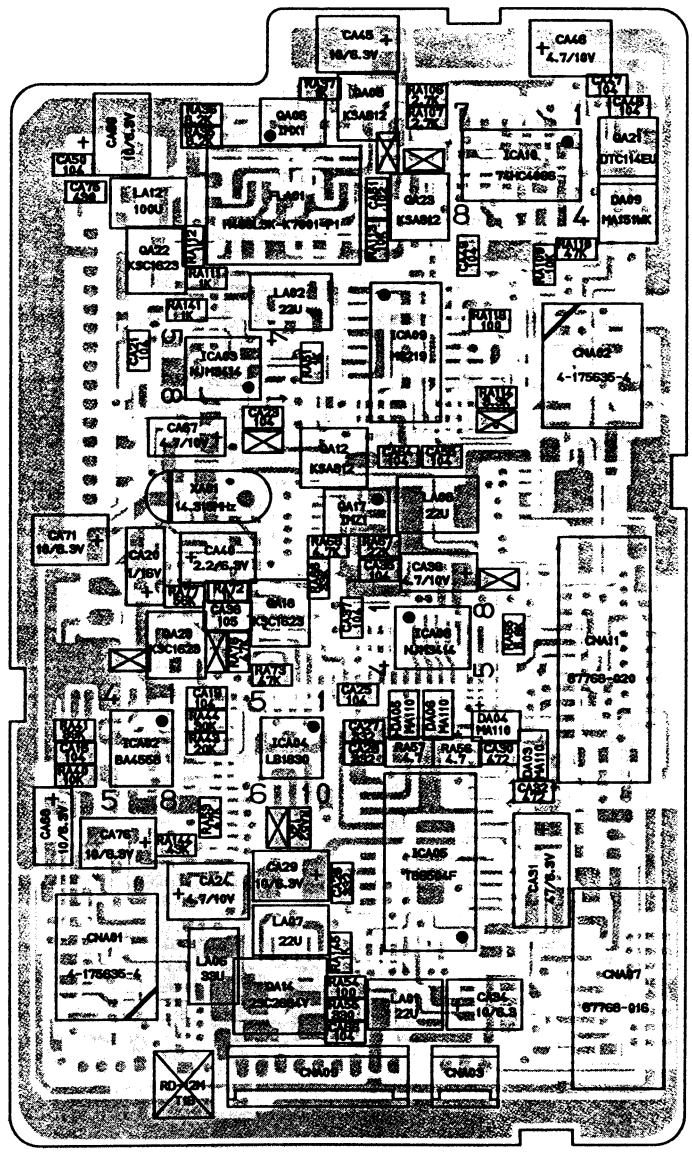


http://www.ManualsCenter.com

9-11. Auto (Top Side)

: Pattern from the side which enables seeing

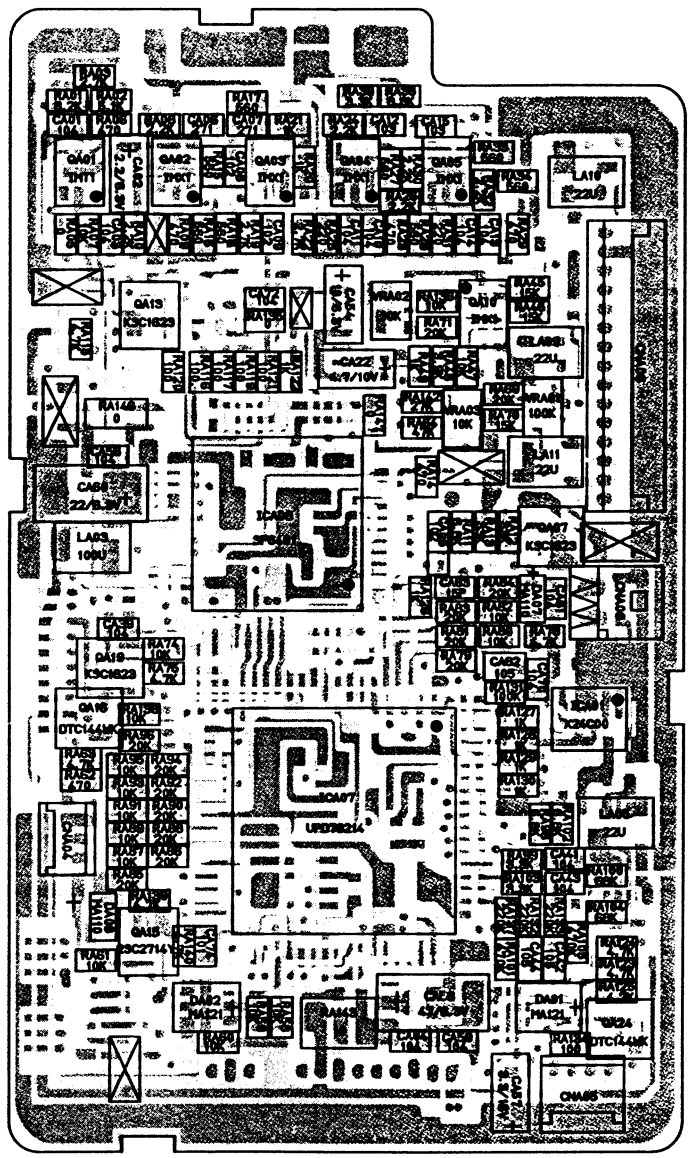
: Pattern of the rear side



9-11. Auto (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side

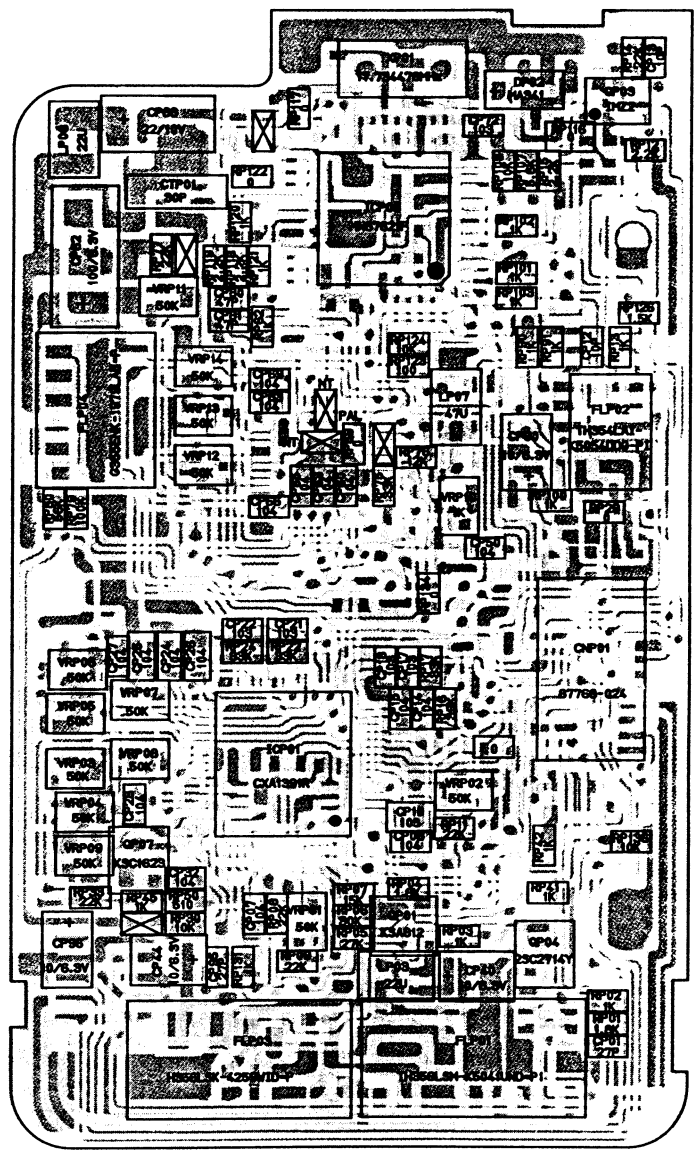


http://www.ManualsCenter.com

9-12. Process (Top Side)

: Pattern from the side which enables seeing

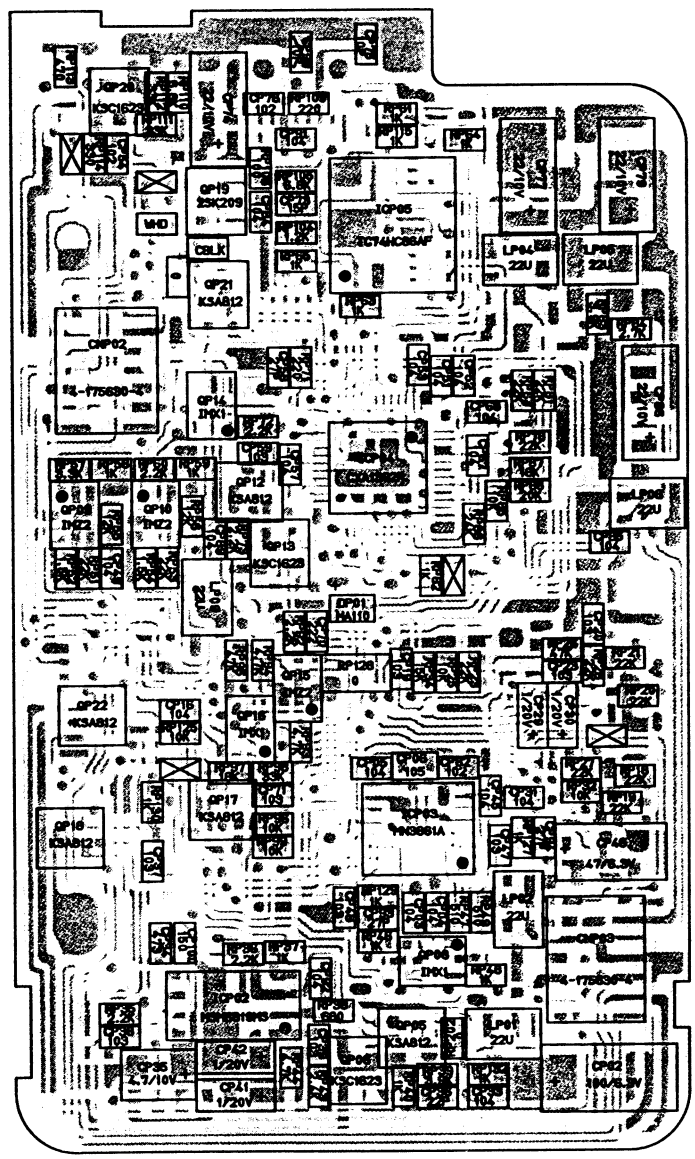
: Pattern of the rear side



9-12. Process (Bottom Side)

: Pattern from the side which enables seeing

: Pattern of the rear side



http://www.ManualsCenter.com

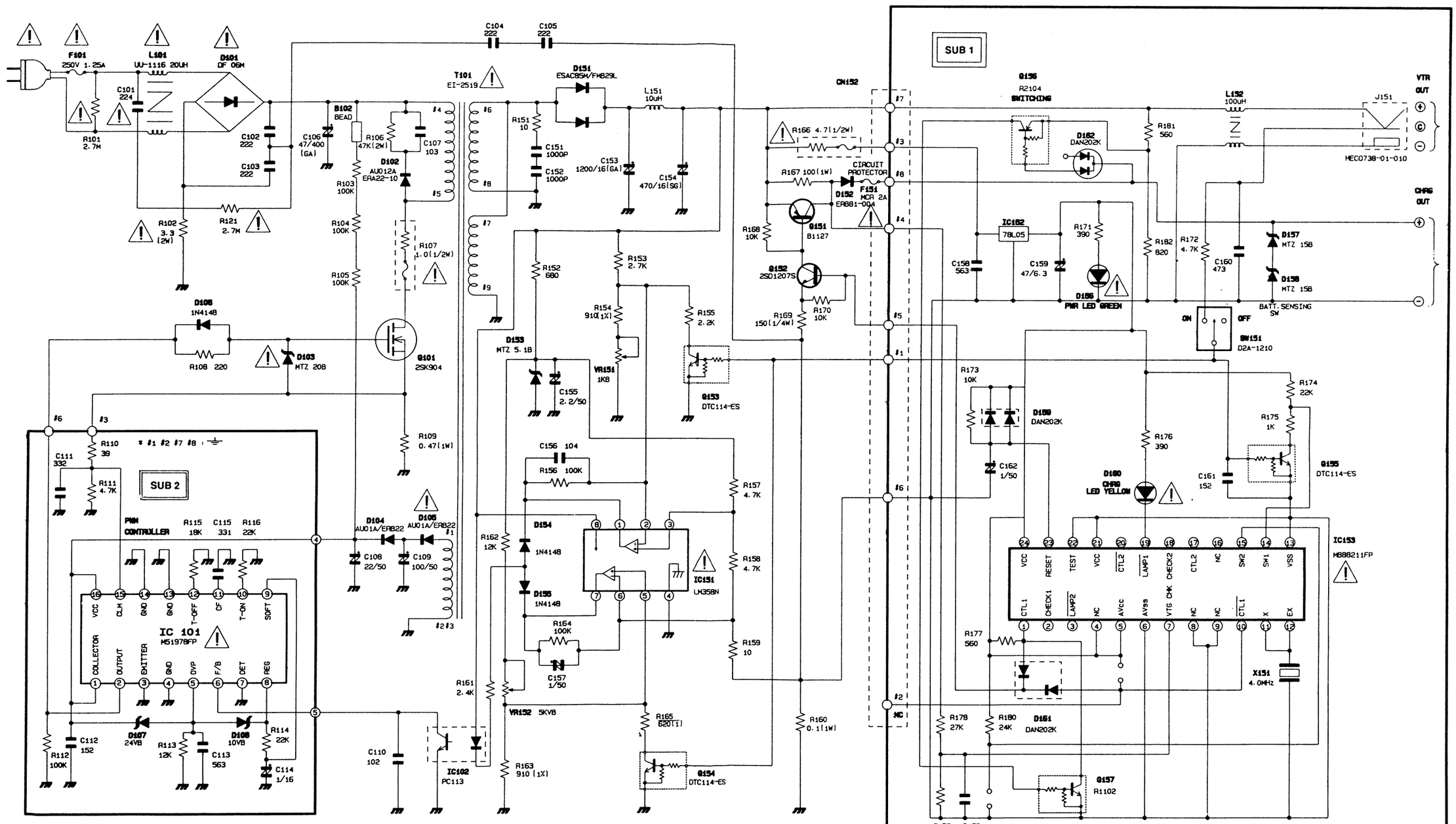
10. SCHEMATIC DIAGRAMS

		Page
10-1.	AC Power Adaptor	10-2
10-2.	DC/DC Converter	10-3
10-3.	System Control/Servo	10-4
10-4.	Video	10-6
10-5.	Audio	10-8
10-6.	Pre-Amp	10-10
10-7.	MIC	10-12
10-8.	VTR Function	10-12
10-9.	Start/Stop	10-13
10-10.	DECK FPC	10-13
10-11.	Remote Control	10-14
10-12.	Module	10-14
10-13.	E.V.F	10-15
10-14.	Drive	10-16
10-15.	CAMERA Function	10-18
10-16.	Auto	10-20
10-17.	Process	10-22

AC POWER ADAPTOR

AC POWER ADAPTOR

10-1. AC Power Adaptor



SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

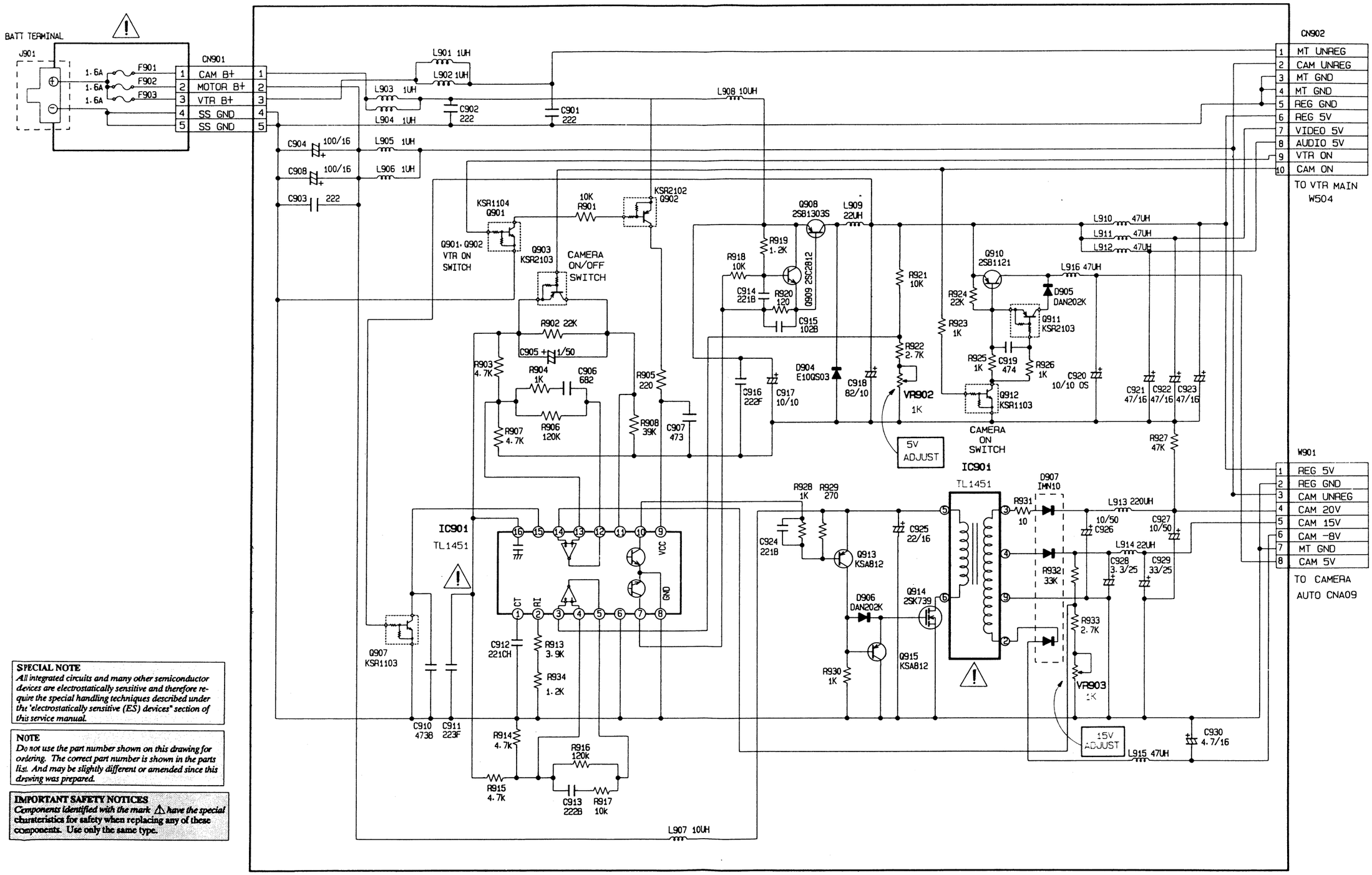
NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

IMPORTANT SAFETY NOTICES
Components identified with the mark ⚠ have the special charateristics for safety when replacing any of these components. Use only the same type.

http://www.ManualsCenter.com

DC/DC CONV.
DC/DC CONV.

10-2. DC/DC Converter



SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

IMPORTANT SAFETY NOTICES
Components identified with the mark ⚠ have the special characteristics for safety when replacing any of these components. Use only the same type.

http://www.ManualsCenter.com

SYSTEM CONTROL
SERVO

SYSTEM CONTROL
SERVO

10-3. System Control/Servo

The schematic diagram of "System Control/Servo" is on page 10-25.

IC 501 (CXP80116)

PIN NO	PB[V]	REC[V]
1	2.5	2.5
2	2.5	2.5
3	5.0	4.9
4	5.0	0.0
5	0.0	4.9
6	5.0	4.9
7	0.0	0.0
8	0.0	0.0
9	4.9	0.0
10	4.9	4.9
11	4.9	4.9
12	4.9	4.9
13	0.0	0.0
14	4.9	4.9
15	4.3	4.3
16	4.3	4.3
17	2.5	2.5
18	2.5	2.5
19	0.0	0.0
20	0.0	0.0
21	0.0	0.0
22	4.9	4.9
23	0.0	0.0
24	0.0	0.0
25	4.9	0.0
26	0.0	0.0
27	0.0	0.0
28	0.0	0.0
29	0.0	0.0
30	0.0	0.0
31	0.0	0.0
32	5.0	5.0
33	0.0	0.0
34	2.6	2.6
35	2.4	2.4
36	2.4	2.4
37	0.7	1.0
38	4.9	4.9
39	5.0	5.0
40	4.9	0.0
41	4.5	4.5
42	5.0	4.9
43	0.0	0.0
44	4.9	4.9
45	4.9	4.9
46	4.9	4.9
47	4.9	4.9
48	3.8	3.8
49	0.2	0.2
50	2.7	2.7
51	2.4	2.5
52	0.0	0.0
53	5.0	4.9
54	5.0	4.9
55	0.2	0.2
56	5.0	4.9
57	0.0	4.9
58	0.2	0.2

IC 501 (CXP80116)

PIN NO	PB[V]	REC[V]
59	0.0	3.8
60	0.2	0.2
61	2.5	2.5
62	2.7	2.7
63	0.0	4.9
64	0.0	0.0
65	0.0	0.0
66	0.0	0.0
67	2.0	2.0
68	1.0	1.0
69	2.7	2.7
70	0.0	4.9
71	5.0	4.9
72	5.0	4.9
73	0.0	0.0
74	5.0	4.9
75	5.0	4.9
76	5.0	4.9
77	4.9	0.0
78	4.9	0.0
79	0.0	0.0
80	2.5	2.5

IC 502 (CXA1204)

PIN NO	PB[V]	REC[V]
1	0.0	0.0
2	5.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	2.7	2.5
7	0.0	0.0
8	2.5	2.5
9	0.0	0.0
10	1.2	3.6
11	2.5	2.5
12	2.5	2.5
13	0.0	0.0
14	2.3	2.3
15	0.0	0.0
16	2.5	2.5
17	0.0	0.0
18	0.0	0.0
19	0.0	0.0
20	4.9	5.0
21	2.5	2.5
22	0.0	0.0
23	2.5	2.5
24	1.7	2.3
25	3.6	0.0
26	0.0	0.0
27	4.9	5.0
28	4.9	5.0
29	0.0	0.0
30	1.6	1.8
31	2.6	3.6
32	2.5	2.5
33	2.5	2.5
34	0.0	0.0
35	1.4	2.5
36	2.7	2.5
37	0.0	0.0
38	1.7	1.5
39	1.8	2.0
40	1.8	0.4
41	0.0	0.0
42	1.4	2.4
43	1.4	4.4
44	2.9	0.0

IC 503 (CXA8006)

PIN NO	PB[V]	REC[V]
1	0.7	0.6
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.4	0.4
6	0.6	0.6
7	4.9	4.9
8	6.7	6.6
9	6.7	6.6
10	0.0	0.0
11	0.0	0.0
12	6.9	6.8
13	1.4	1.4
14	0.7	0.7
15	0.0	0.0
16	0.7	0.7
17	0.0	0.0
18	0.0	0.0
19	1.4	1.4
20	0.7	0.7
21	0.7	0.7
22	0.7	0.7
23	0.7	0.7
24	3.8	0.0
25	2.7	2.8
26	0.0	2.7
27	0.0	3.8
28	3.2	3.2
29	0.0	0.0
30	5.0	5.0

IC 504 (LB1851)

PIN NO	PB[V]	REC[V]
1	0.0	0.0
2	0.0	0.0
3	1.2	1.2
4	2.4	2.4
5	6.7	6.8
6	5.0	5.0
7	5.0	4.9
8	0.8	0.8
9	0.0	0.0
10	2.5	2.5
11	2.5	2.5
12	2.4	2.4
13	2.7	2.7
14	0.0	0.0
15	0.0	0.0
16	0.0	0.0
17	0.0	0.0
18	4.9	4.9
19	0.0	0.0
20	2.5	2.5
21	2.5	2.5
22	2.5	2.5
23	2.5	2.5
24	2.5	2.5
25	2.5	2.5
26	0.0	0.0
27	1.2	1.2
28	1.2	1.2
29	0.0	0.0
30	0.0	0.0

IC 505 (LB1631)

PIN NO	PB[V]	REC[V]
1	4.9	4.9
2	0.0	0.0
3	0.0	0.0
4	4.9	4.9
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	4.9	4.9
11	0.0	0.0
12	0.0	0.0

IC 506 (LB8110)

PIN NO	PB[V]	REC[V]
1	4.3	4.3
2	0.0	0.0
3	4.3	4.3
4	2.0	2.0
5	0.0	0.0
6	2.0	2.0
7	0.0	0.0
8	0.1	0.1
9	1.9	2.0
10	2.0	2.0
11	2.0	2.0
12	2.0	2.0
13	0.0	0.0
14	2.0	2.0
15	2.0	2.0
16	2.0	2.0
17	2.0	2.0
18	2.0	2.0
19	2.5	2.5
20	4.5	4.5
21	0.0	0.0
22	0.2	0.2
23	5.0	5.0
24	2.5	2.5
25	2.4	2.4
26	2.4	2.4
27	2.4	2.4
28	2.7	2.5
29	2.7	2.7
30	2.4	2.4
31	2.4	2.4
32	2.4	2.4
33	2.7	2.7
34	5.0	5.0
35	0.7	0.7
36	0.0	0.0

IC 507 (SB1350)

PIN NO	PB[V]	REC[V]
1	5.0	5.0
2	0.0	0.0
3	6.9	6.9

IC 508 (SCI7701)

PIN NO	PB[V]	REC[V]
1	5.0	5.0
2	5.0	5.0
3	0.0	0.0

IC509 (NJM2904)

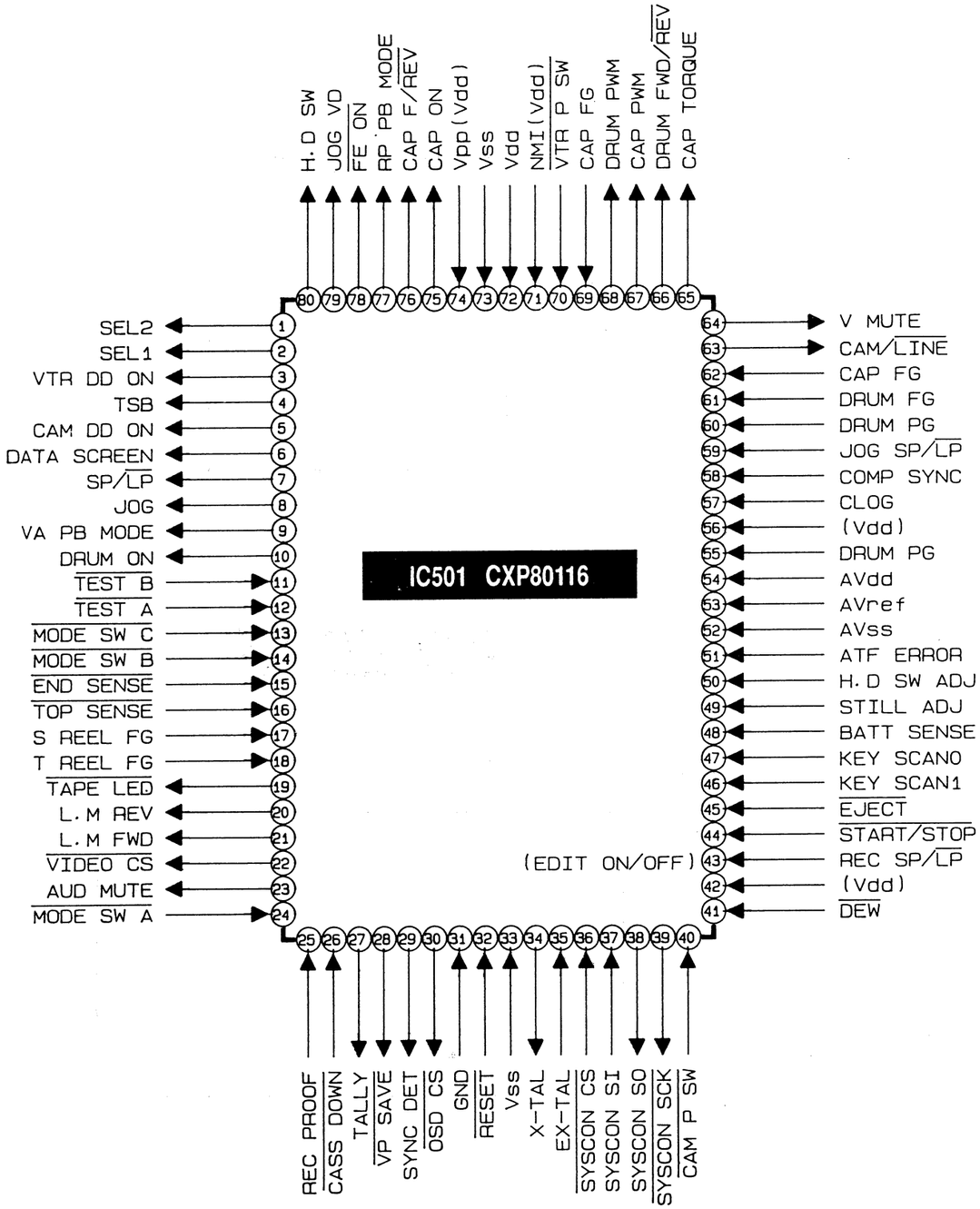
PIN NO	PB[V]	REC[V]
1	0.0	0.0
2	2.5	2.5
3	2.5	2.5
4	0.0	0.0
5	2.5	2.5
6	1.3	2.8
7	3.8	0.0
8	5.0	5.0

http://www.ManualsCenter.com

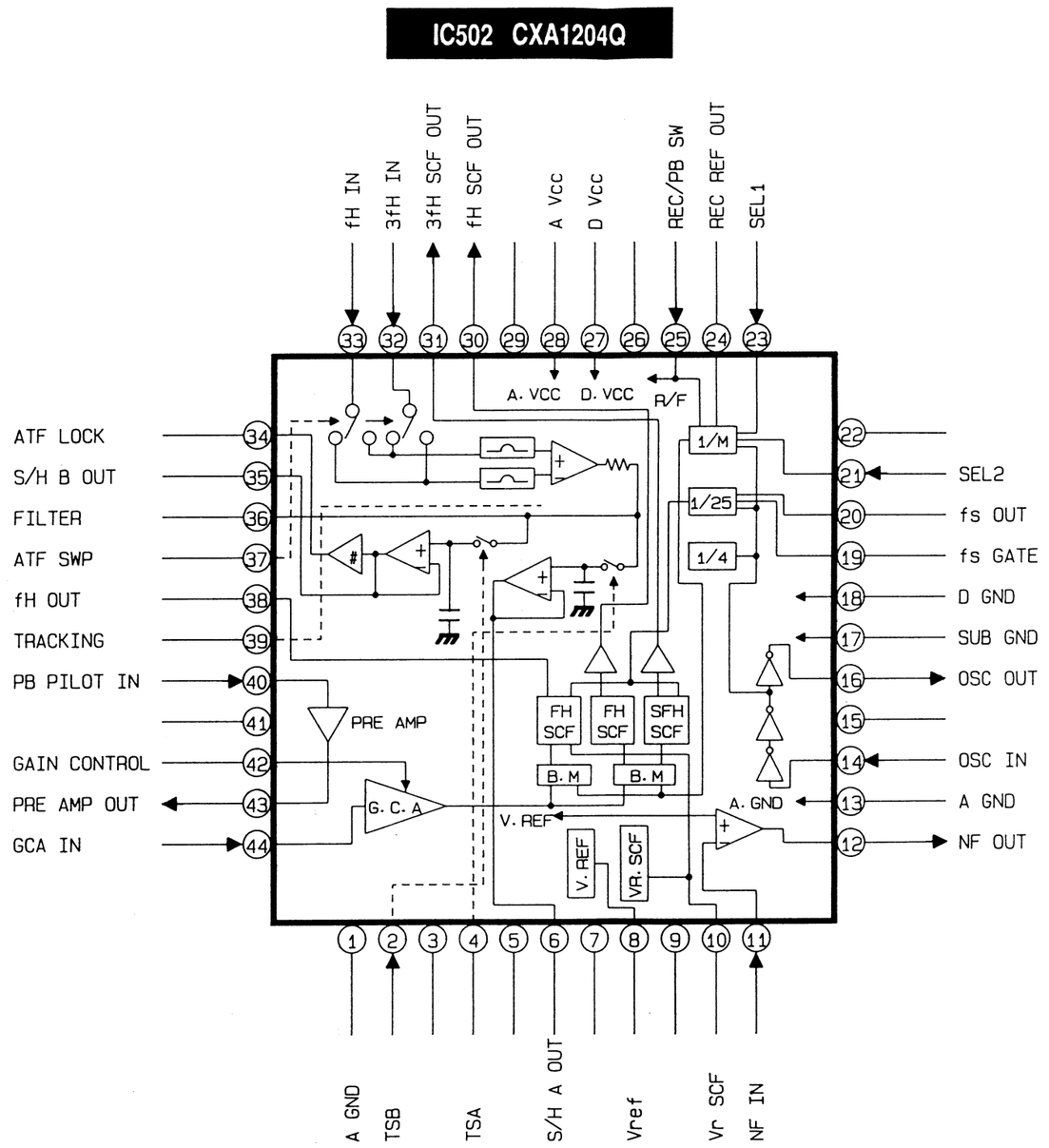
SYSTEM CONTROL
SERVO

SYSTEM CONTROL
SERVO

IC501 CXP80116



IC502 CXA1204Q



http://www.ManualsCenter.com

VIDEO
VIDEO

10-4. Video

The schematic diagram of "Video" is on page 10-26.

IC201 (CXA1201)		
PIN NO	PLAY BACK	RECORD
1	1.8V	1.8V
2	2.1V	2.1V
3	1.8V	1.8V
4	2.1V	2.1V
5	0.0V	0.0V
6	1.8V	1.8V
7	0.0V	0.0V
8	2.3V	2.3V
9	5.0V	5.0V
10	1.8V	1.8V
11	1.8V	1.8V
12	2.3V	2.3V
13	0.0V	0.0V
14	0.6V	0.6V
15	0.0V	0.0V
16	0.0V	0.0V
17	0.0V	0.0V
18	0.0V	0.0V
19	0.0V	0.0V
20	3.6V	3.8V
21	5.0V	5.0V
22	4.9V	4.9V
23	5.0V	5.0V
24	5.0V	5.0V
25	2.3V	2.3V
26	4.3V	4.4V
27	0.0V	0.0V
28	2.3V	2.4V
29	0.0V	0.0V
30	2.1V	2.1V
31	2.1V	2.1V
32	2.1V	2.1V

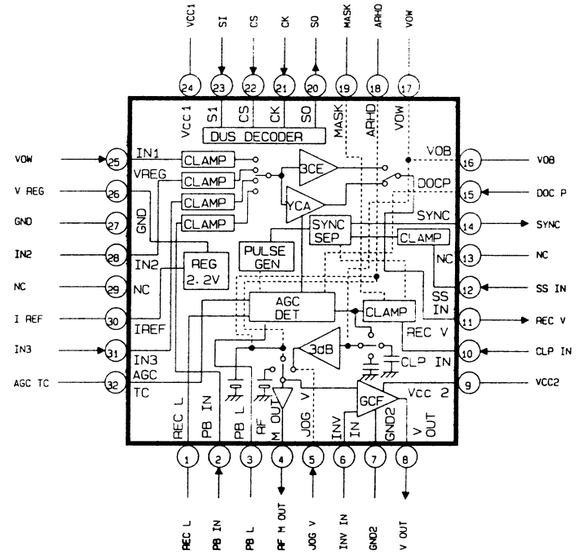
IC 202 (CXL1502)		
PIN NO	PLAY BACK	RECORD
1	0.0V	0.0V
2	2.4V	2.4V
3	1.0V	1.0V
4	2.6V	2.6V
5	2.1V	2.1V
6	0.0V	0.0V
7	4.9V	4.9V
8	0.0V	0.0V
9	0.0V	0.0V
10	1.8V	1.8V
11	0.8V	0.8V
12	1.8V	1.8V
13	0.0V	0.0V
14	0.6V	0.6V
15	1.8V	1.8V
16	0.0V	0.0V
17	0.0V	0.0V
18	1.8V	1.8V
19	4.9V	4.9V
20	1.1V	1.1V
21	0.0V	0.0V
22	0.0V	0.0V
23	0.0V	0.0V
24	0.0V	0.0V
25	2.4V	2.4V
26	4.9V	4.9V
27	2.4V	2.4V
28	2.4V	2.4V
29	0.0V	0.0V
30	2.4V	2.4V

IC 203 (CXA1200Q)		
PIN NO	PLAY BACK	RECORD
1	2.3V	2.3V
2	0.0V	0.0V
3	3.2V	0.5V
4	2.7V	2.0V
5	0.0V	2.5V
6	4.9V	4.9V
7	2.7V	2.7V
8	0.5V	0.5V
9	0.5V	1.6V
10	2.4V	2.3V
11	3.1V	3.1V
12	0.0V	0.0V
13	2.4V	2.4V
14	2.7V	2.7V
15	3.6V	3.6V
16	2.6V	2.6V
17	5.0V	5.0V
18	5.0V	5.0V
19	3.7V	3.7V
20	0.5V	0.5V
21	5.0V	5.0V
22	2.6V	2.5V
23	2.5V	2.5V
24	2.4V	2.4V
25	1.1V	2.5V
26	0.0V	0.0V
27	2.5V	2.5V
28	2.6V	2.5V
29	2.3V	2.4V
30	2.7V	2.8V
31	2.7V	2.8V
32	5.0V	5.0V
33	2.3V	2.4V
34	4.5V	4.9V
35	2.7V	2.8V
36	2.4V	2.4V
37	2.7V	2.8V
38	3.1V	3.2V
39	2.7V	2.8V
40	3.0V	3.1V
41	2.7V	2.7V
42	2.7V	2.7V
43	2.5V	2.7V
44	2.7V	2.7V
45	2.9V	2.8V
46	3.7V	3.8V
47	2.9V	2.8V
48	1.9	1.9V
49	2.7V	2.7V
50	5.0V	5.0V
51	2.3V	2.3V
52	2.4V	2.3V
53	1.8V	1.8V
54	2.6V	2.6V
55	5.0V	5.0V
56	2.5V	2.2V
57	2.8V	0.5V
58	0.0V	0.0V
59	3.7V	3.3V
60	3.0V	3.3V
61	2.6V	2.5V
62	0.0V	0.0V
63	2.7V	2.7V
64	5.0V	5.0V

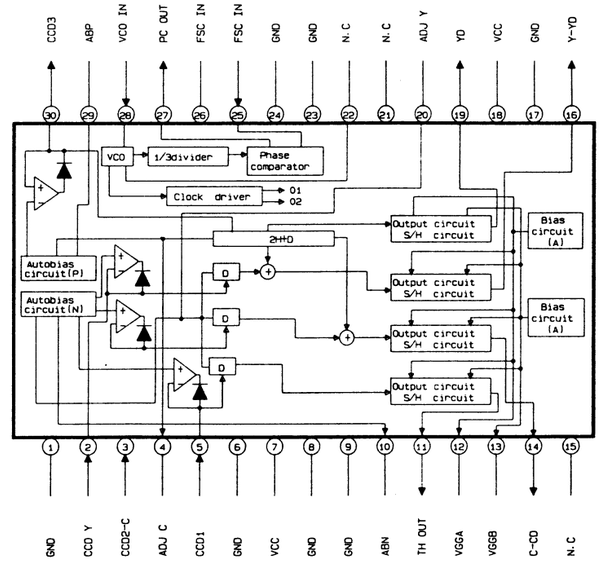
IC204 (CXA1203)		
PIN NO	PLAY BACK	RECORD
1	4.5V	1.1V
2	2.5V	1.9V
3	0.0V	0.0V
4	2.6V	1.0V
5	2.5V	0.0V
6	0.0V	0.0V
7	2.2V	0.0V
8	2.6V	0.0V
9	2.1V	0.5V
10	1.1V	0.5V
11	0.3V	0.2V
12	0.0V	0.0V
13	4.3V	0.0V
14	2.2V	0.0V
15	2.2V	0.0V
16	2.6V	0.7V
17	4.5V	0.4V
18	0.1V	0.1V
19	4.5V	0.1V
20	0.0V	0.0V
21	2.3V	0.7V
22	3.3V	0.7V
23	4.5V	1.1V
24	1.5V	0.0V

IC205 (MB90075)		
PIN NO	PLAY BACK	RECORD
1	3.0V	3.0V
2	0.0V	0.0V
3	2.8V	2.8V
4	5.0V	5.0V
5	5.0V	5.0V
6	5.0V	5.0V
7	5.0V	5.0V
8	4.0V	4.0V
9	4.2V	4.2V
10	5.0V	5.0V
11	5.0V	5.0V
12	5.0V	5.0V
13	5.0V	5.0V
14	0.0V	0.0V
15	5.4V	5.4V
16	4.0V	4.0V
17	5.0V	5.0V
18	5.0V	5.0V
19	5.0V	5.0V
20	5.0V	5.0V
21	5.0V	5.0V
22	5.0V	5.0V
23	5.0V	5.0V
24	5.0V	5.0V
25	2.8V	2.8V
26	1.6V	1.6V
27	2.5V	2.5V
28	0.0V	0.0V

IC201 CXA1201BQ



IC202 CXL1502

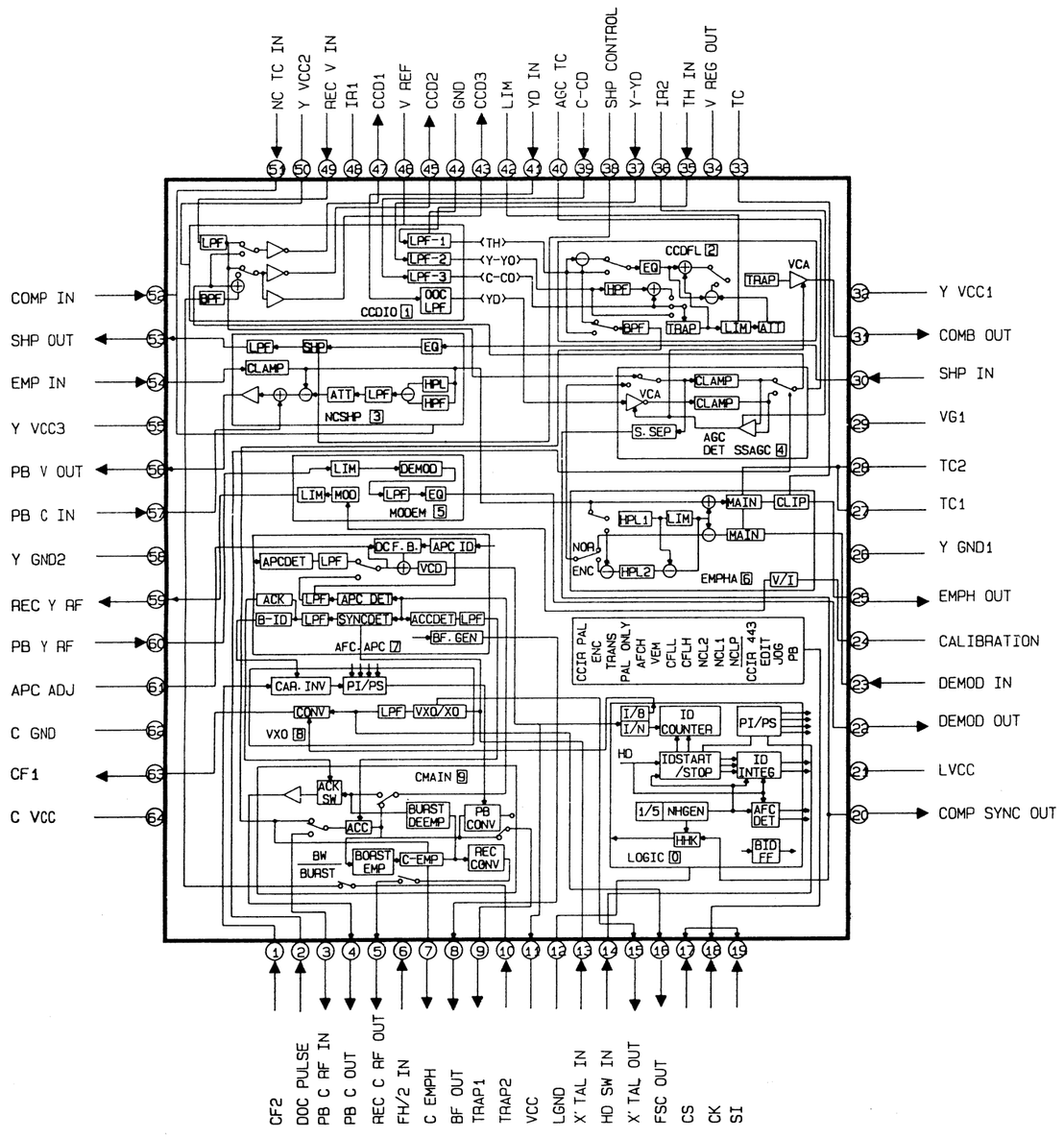


http://www.ManualsCenter.com

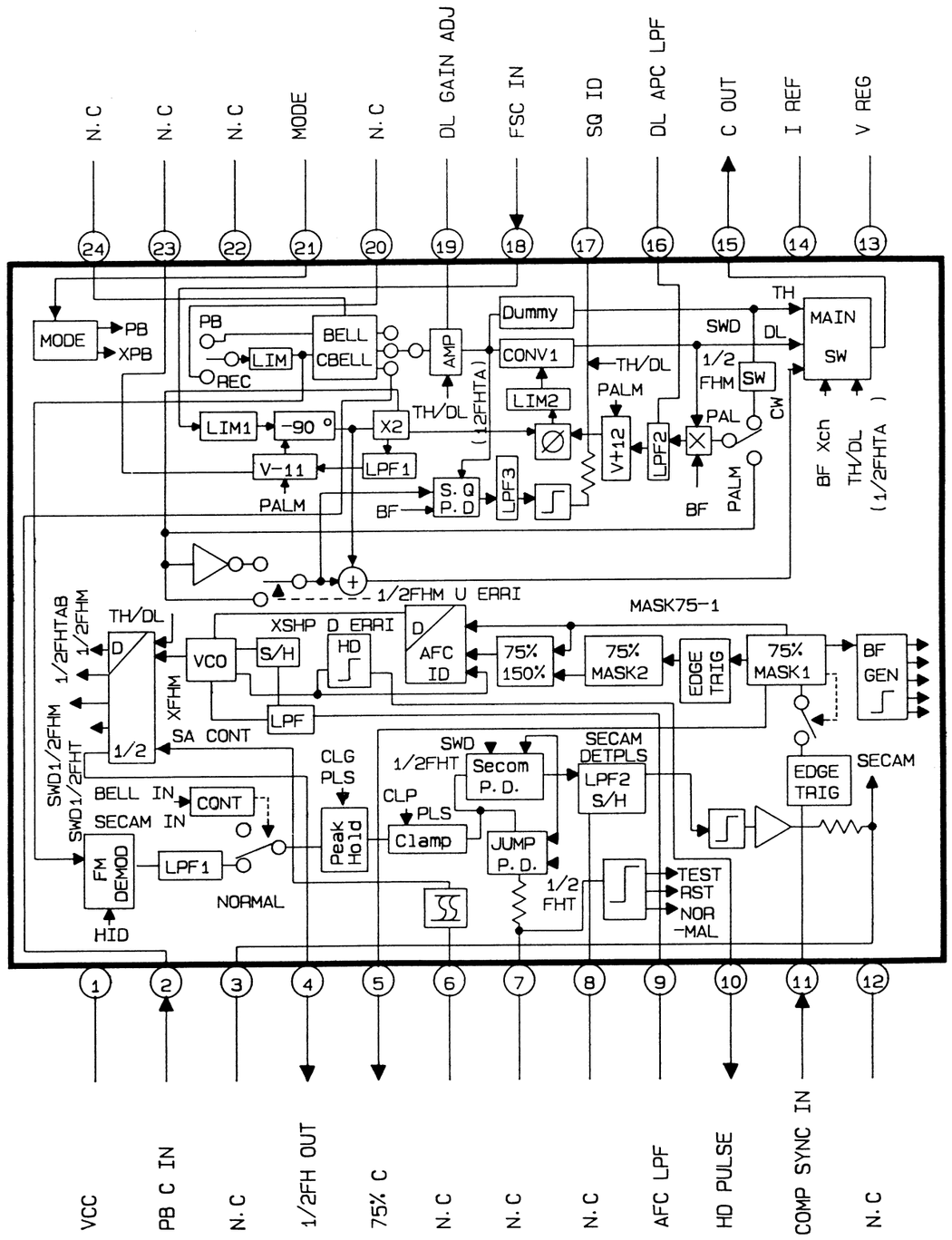
VIDEO

VIDEO

IC203 CXA1200BQ



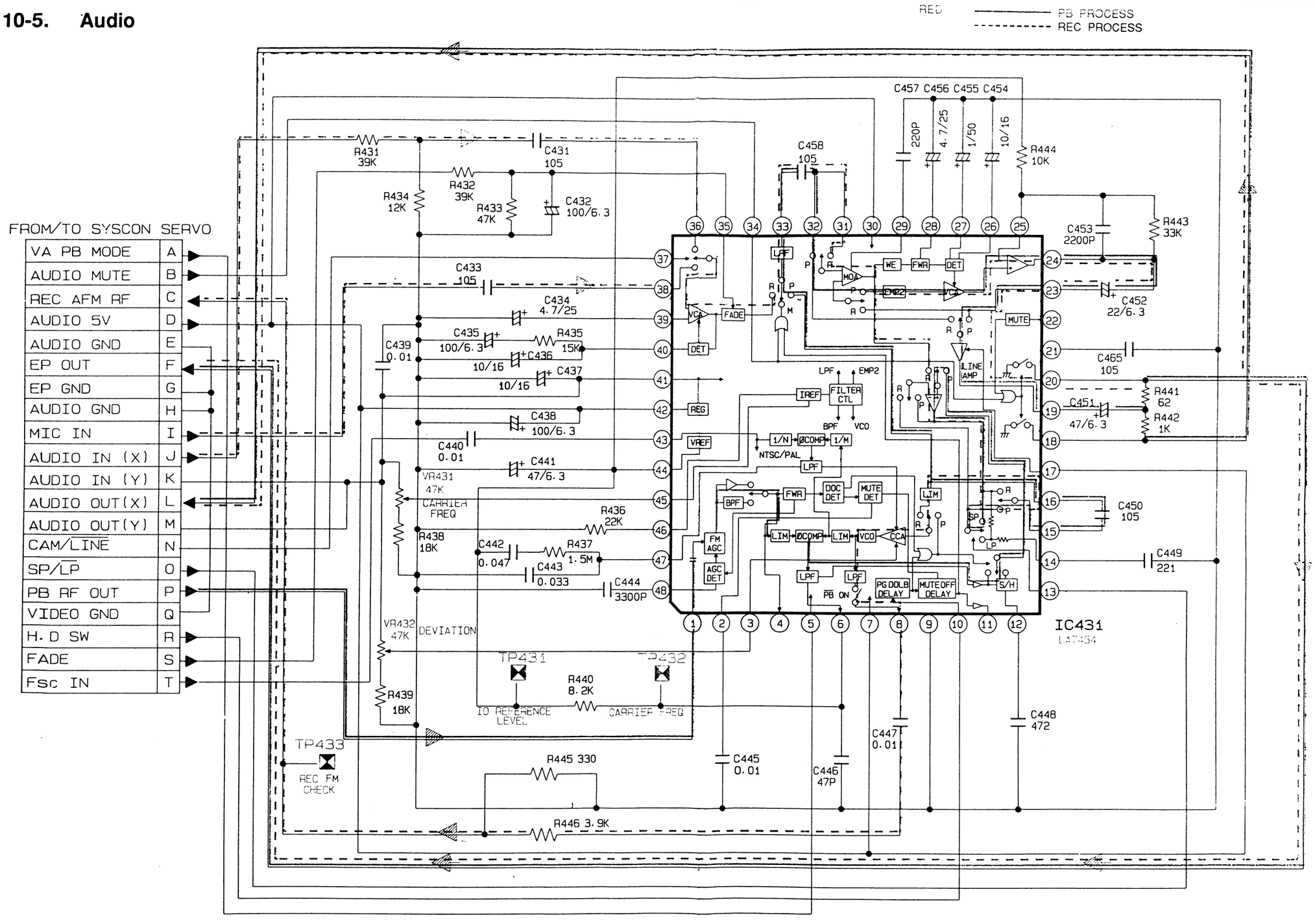
IC204 CXA1203N



http://www.ManualsCenter.com

AUDIO
AUDIO

10-5. Audio



TP433
AUDIO FM (REC)
300mVp-p

A.OUT TERMINAL
A. OUT LEVEL (PB)
1Vp-p

SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

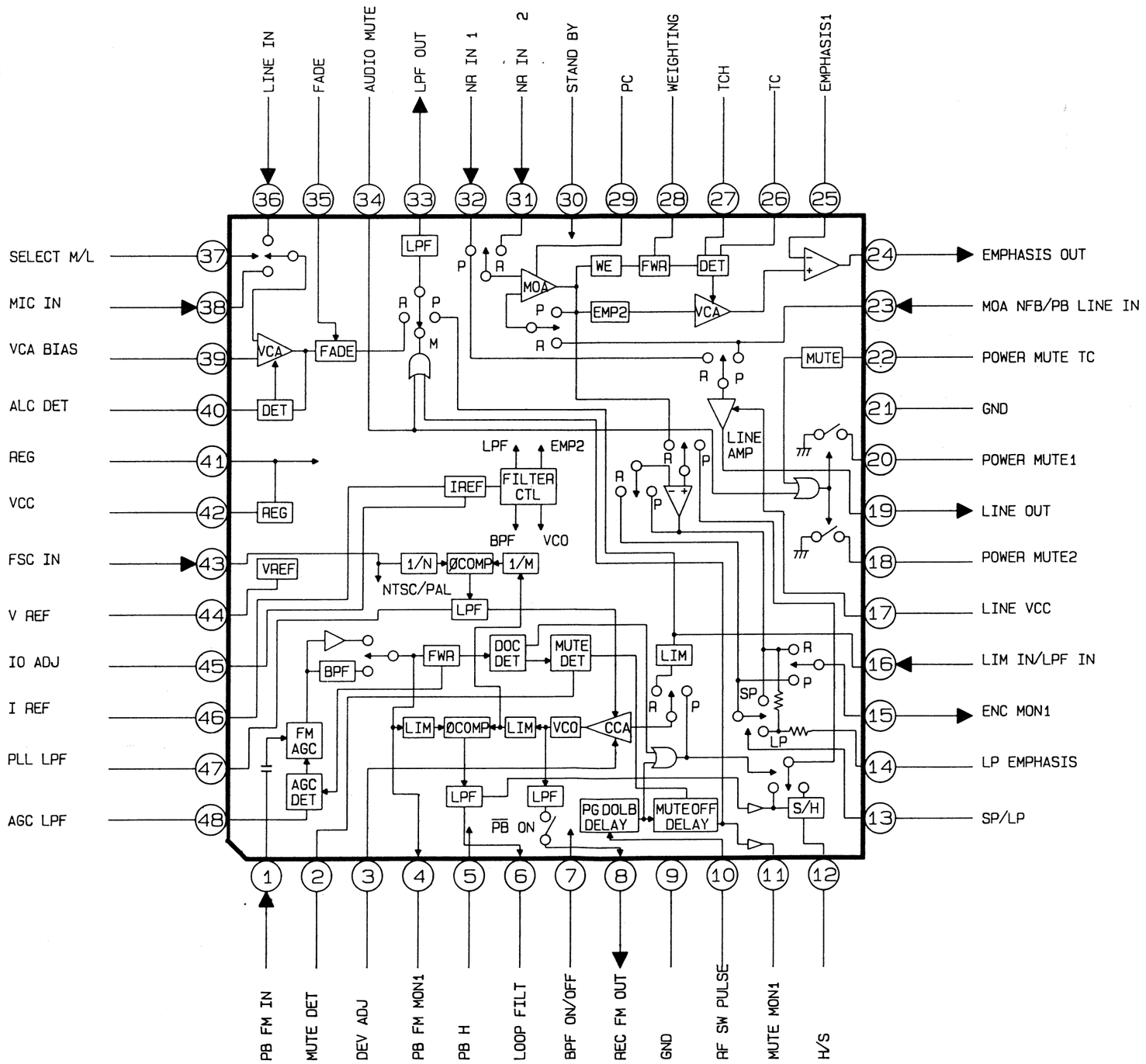
NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

AUDIO
AUDIO

IC431 LA7454W

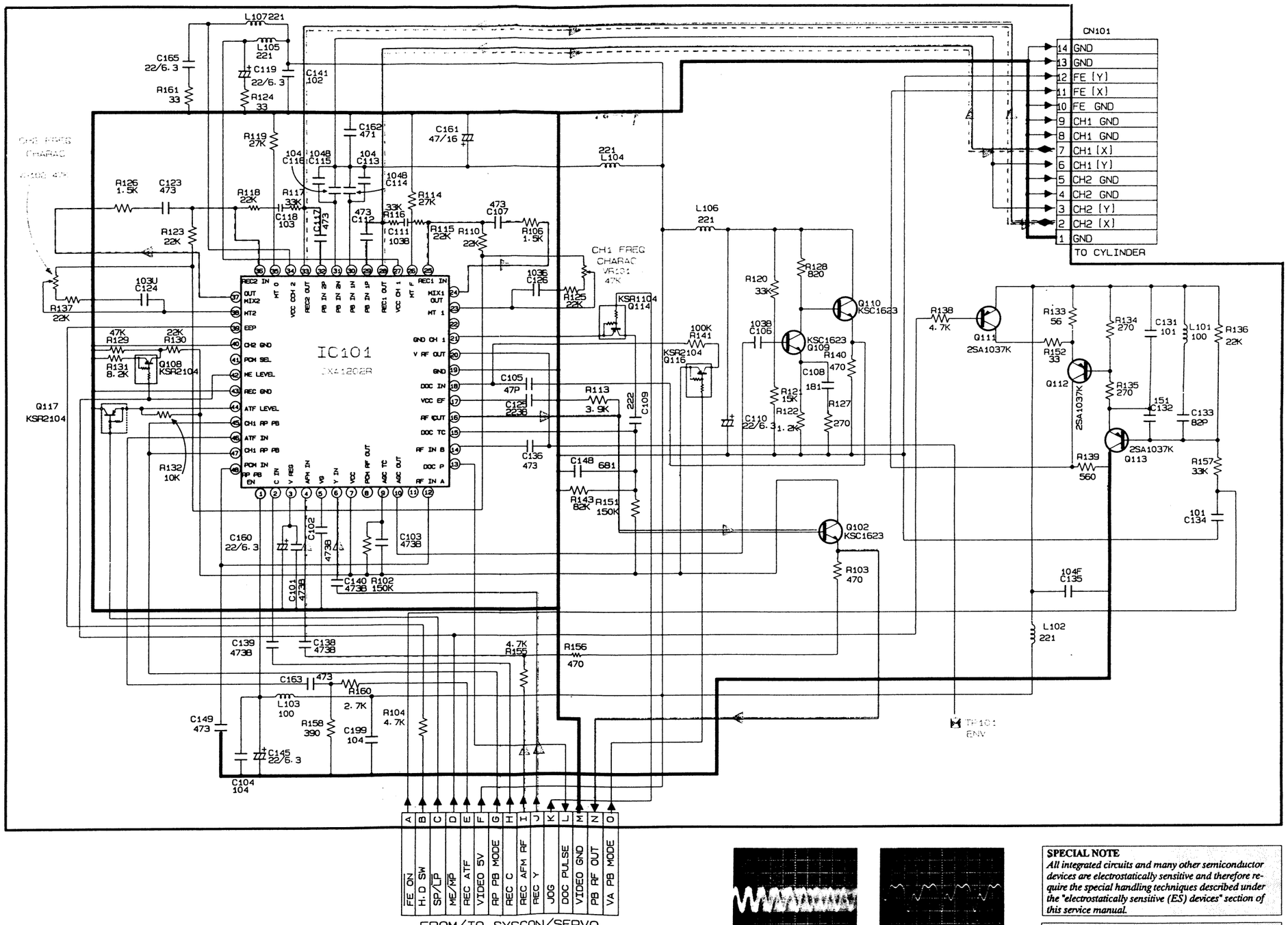
IC 431 (LA7454W)		
PIN NO	PB (V)	REC (V)
1	1.8	1.8
2	0.8	0.8
3	3.6	3.6
4	2.8	3.7
5	4.8	0.0
6	2.0	2.0
7	5.0	5.0
8	1.43	2.1
9	0.0	0.0
10	2.3	2.3
11	NC	NC
12	2.0	2.0
13	SP/$\overline{LP}$	SP/$\overline{LP}$
14	2.0	2.0
15	2.0	2.14
16	2.1	2.1
17	5.0	5.0
18	0.0	0.0
19	2.4	2.4
20	0.0	0.0
21	0.0	0.0
22	0.0	0.0
23	2.1	2.1
24	2.2	2.2
25	2.1	2.1
26	2.0	2.0
27	2.6	2.6
28	2.0	2.0
29	2.8	2.8
30	5.0	5.0
31	2.1	2.1
32	2.1	2.1
33	2.2	2.2
34	0.0	0.0
35	0.0	0.0
36	2.1	2.1
37	0.0	0.0
38	2.1	2.1
39	2.0	2.0
40	1.5	1.7
41	4.2	4.2
42	5.0	5.0
43	4.3	4.3
44	2.1	2.1
45	IO ADJ	IO ADI
46	2.6	2.6
47	0.0	0.0
48	0.9	0.9

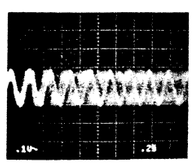


http://www.ManualsCenter.com

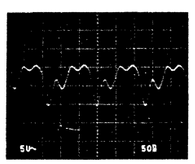
10-6. Pre-Amp

RED ——— REC Y PROCESS
RED - - - - - REC AUDIO PROCESS
BLUE ——— Y/C REC MODE - AUDIO-ATF MODE
BLUE - - - - - Y/C PB MODE - AUDIO-ATF MODE





TP101
PB ENV
200mVp-p



Q112-C
FE FREQ.
7.7±0.5MHz

SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

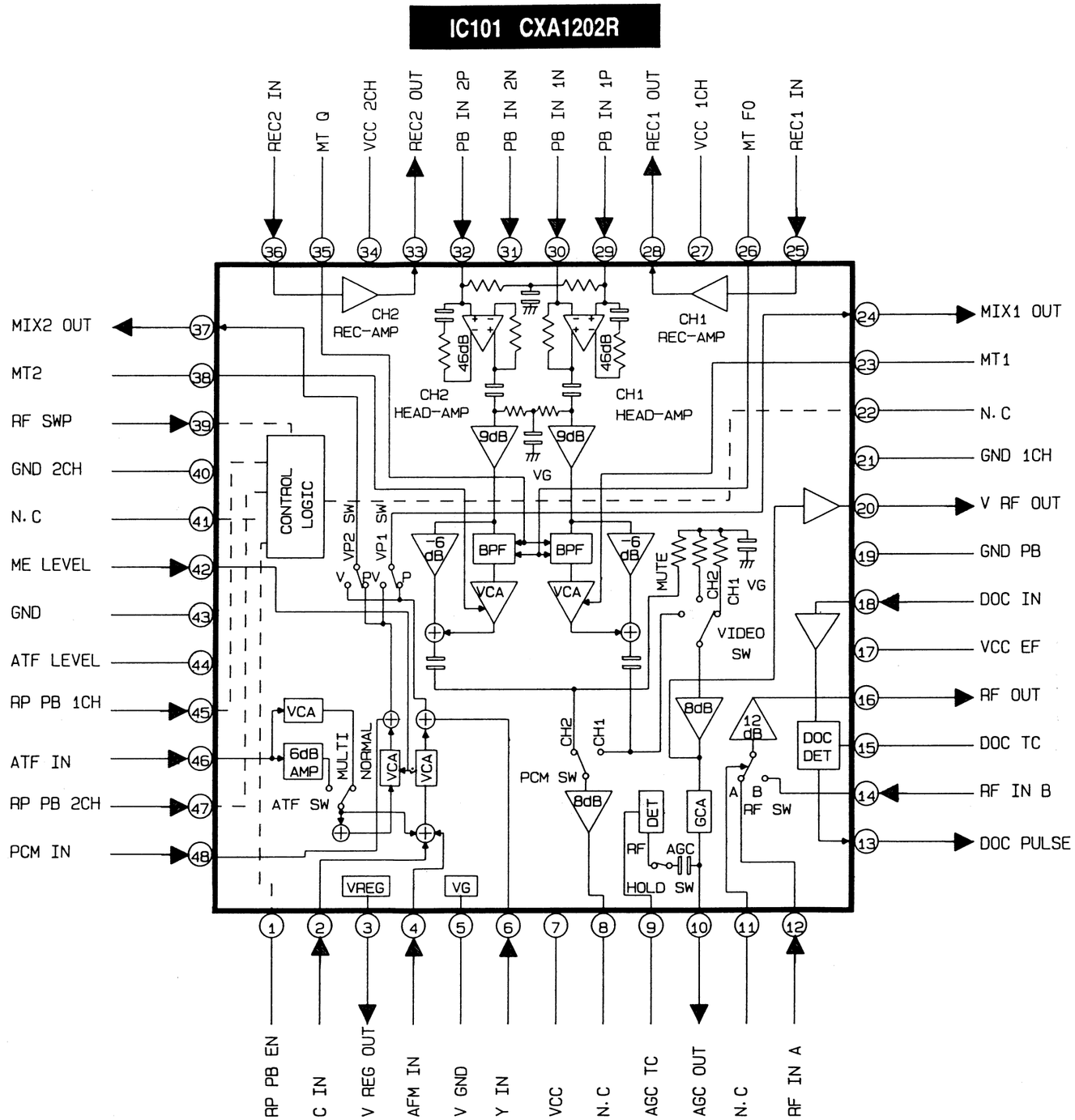
NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

PRE-AMP

PRE-AMP

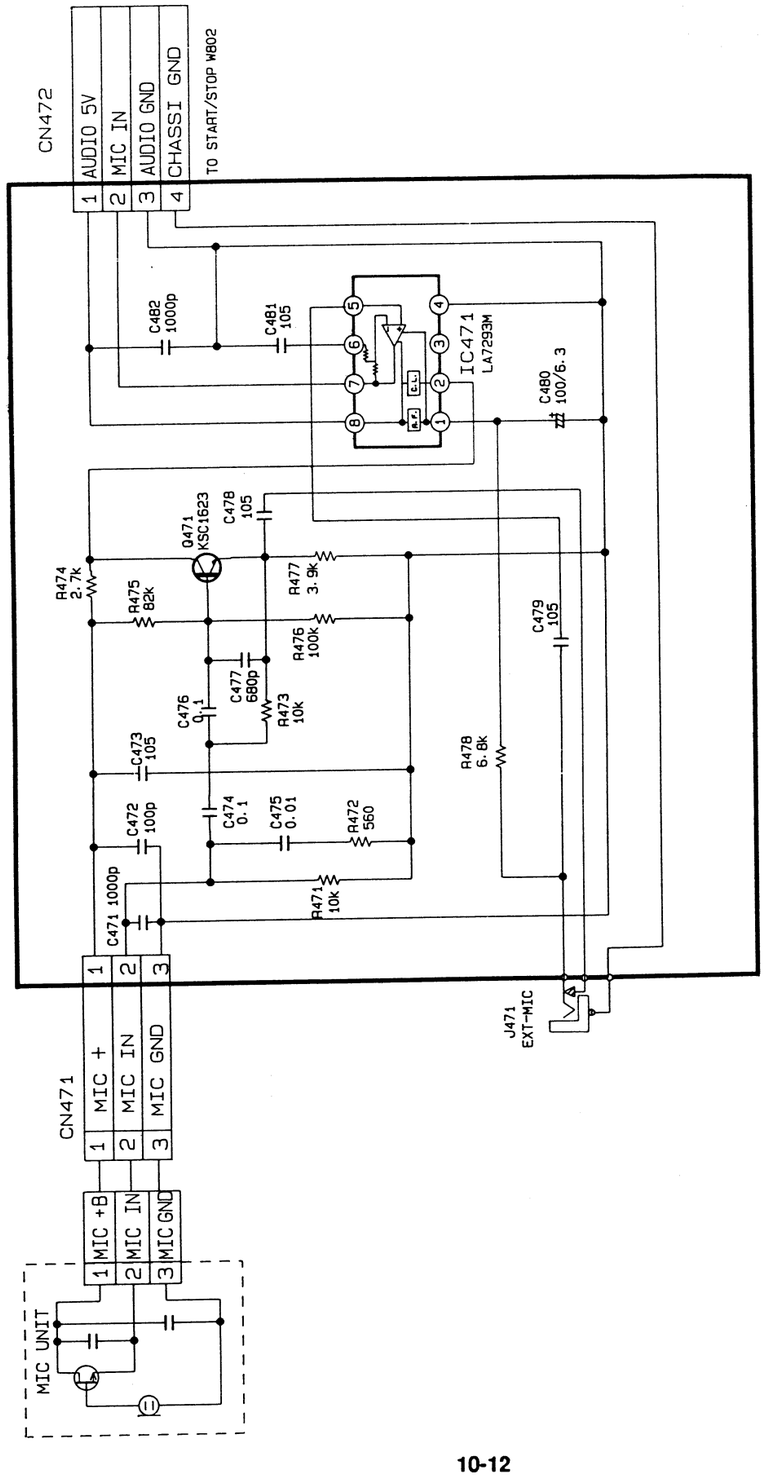
IC 101 (CXA1202)		
PIN NO	PLAY BACK	RECORD
1	5.0V	5.0V
2	0.0V	3.4V
3	4.4V	4.4V
4	0.0V	3.4V
5	2.7V	2.7V
6	0.0V	3.4V
7	5.0V	5.0V
8	1.9V	2.3V
9	4.5V	5.0V
10	2.6V	4.0V
11	0.0V	3.1V
12	2.7V	0.0V
13	0.0V	2.8V
14	2.8V	2.0V
15	2.8V	1.4V
16	2.6V	5.0V
17	5.3V	5.0V
18	2.7V	0.0V
19	0.0V	2.3V
20	2.0V	0.0V
21	0.0V	0.0V
22	0.0V	3.3V
23	3.4V	2.7V
24	2.8V	2.0V
25	2.1V	0.0V
26	2.8V	5.0V
27	5.0V	4.9V
28	5.0V	2.7V
29	2.4V	4.4V
30	2.5V	4.4V
31	2.5V	2.7V
32	2.5V	4.9V
33	5.0V	5.0V
34	5.0V	5.0V
35	2.8V	0.0V
36	2.2V	2.0V
37	2.8V	2.7V
38	3.5V	3.5V
39	2.6V	2.6V
40	0.0V	0.0V
41	0.0V	0.0V
42	3.7V	3.6V
43	0.0V	0.0V
44	5.0V	5.0V
45	4.0V	0.0V
46	2.7V	2.8V
47	3.9V	0.0V
48	2.7V	3.1V



http://www.ManualsCenter.com

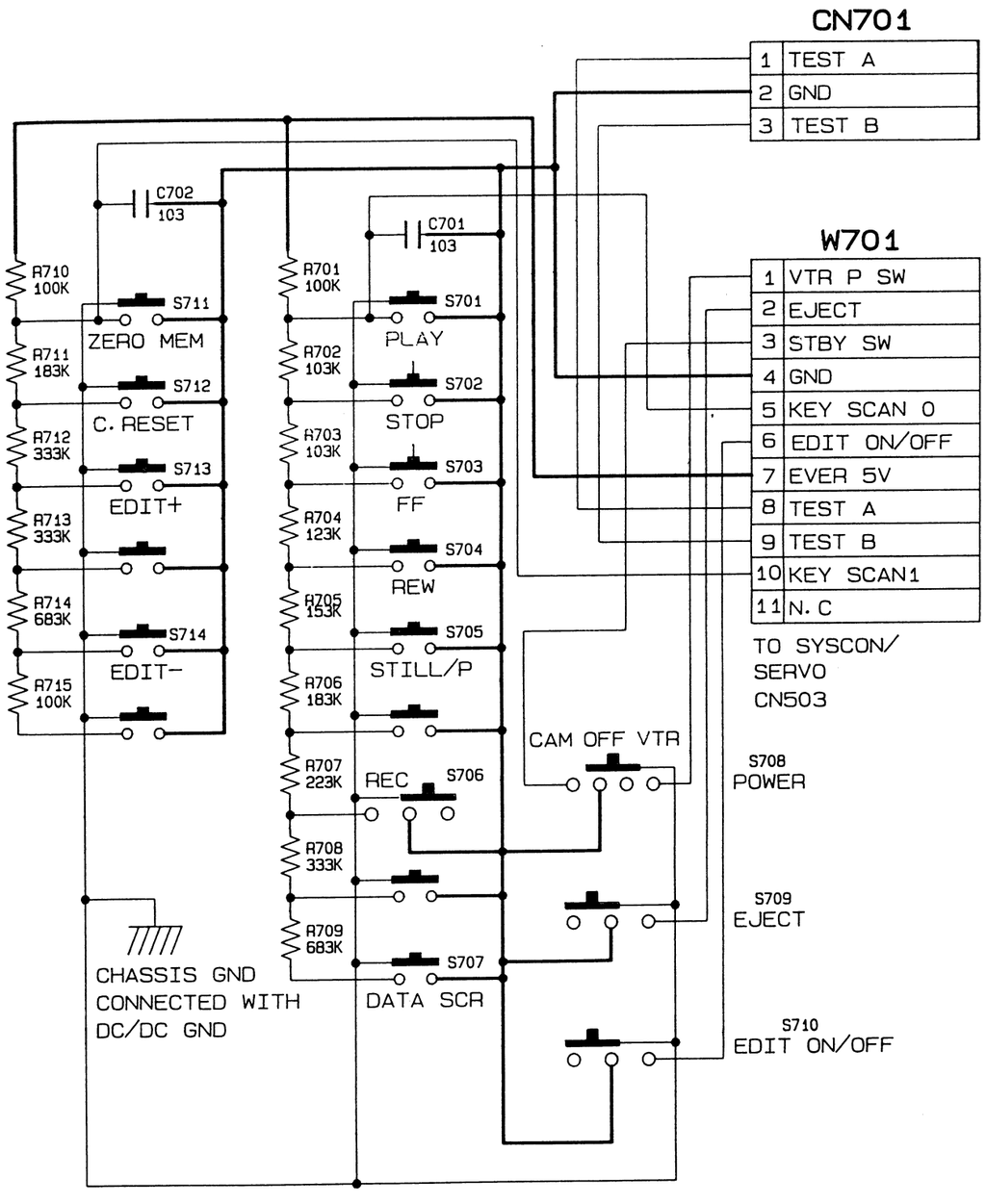
M I C

10-7. MIC



VTR FUNCTION

10-8. VTR Function



SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

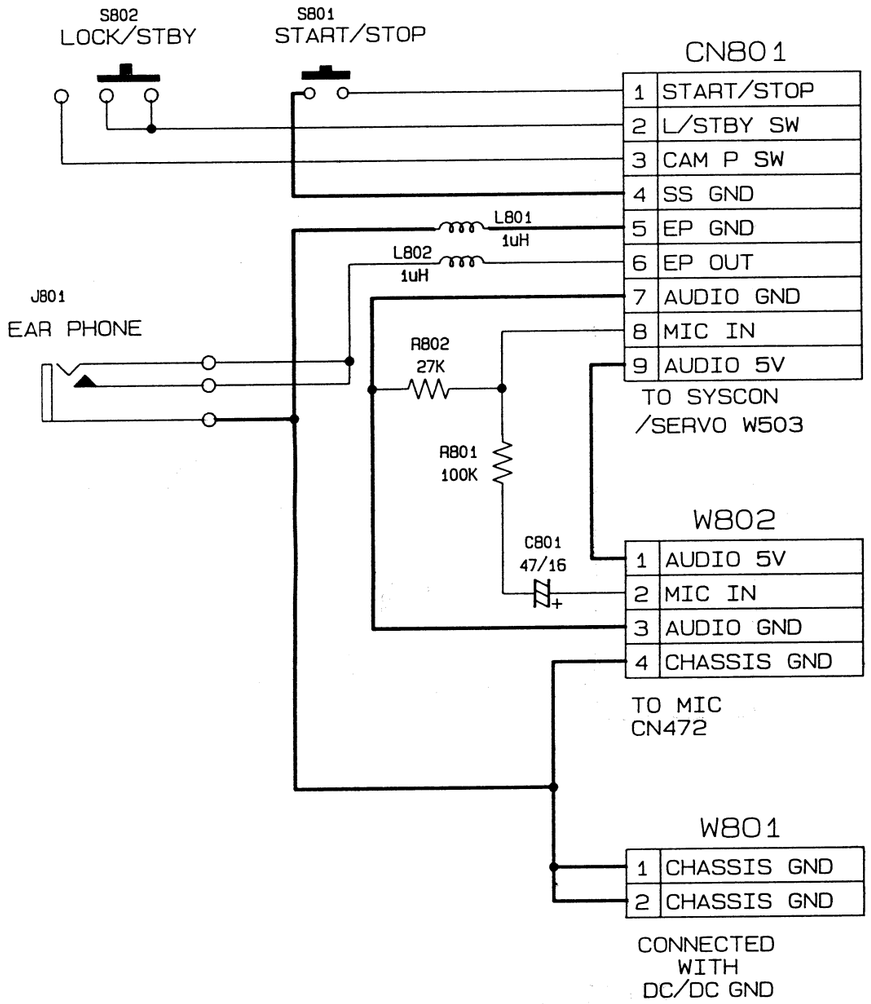
NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

START/STOP

START/STOP

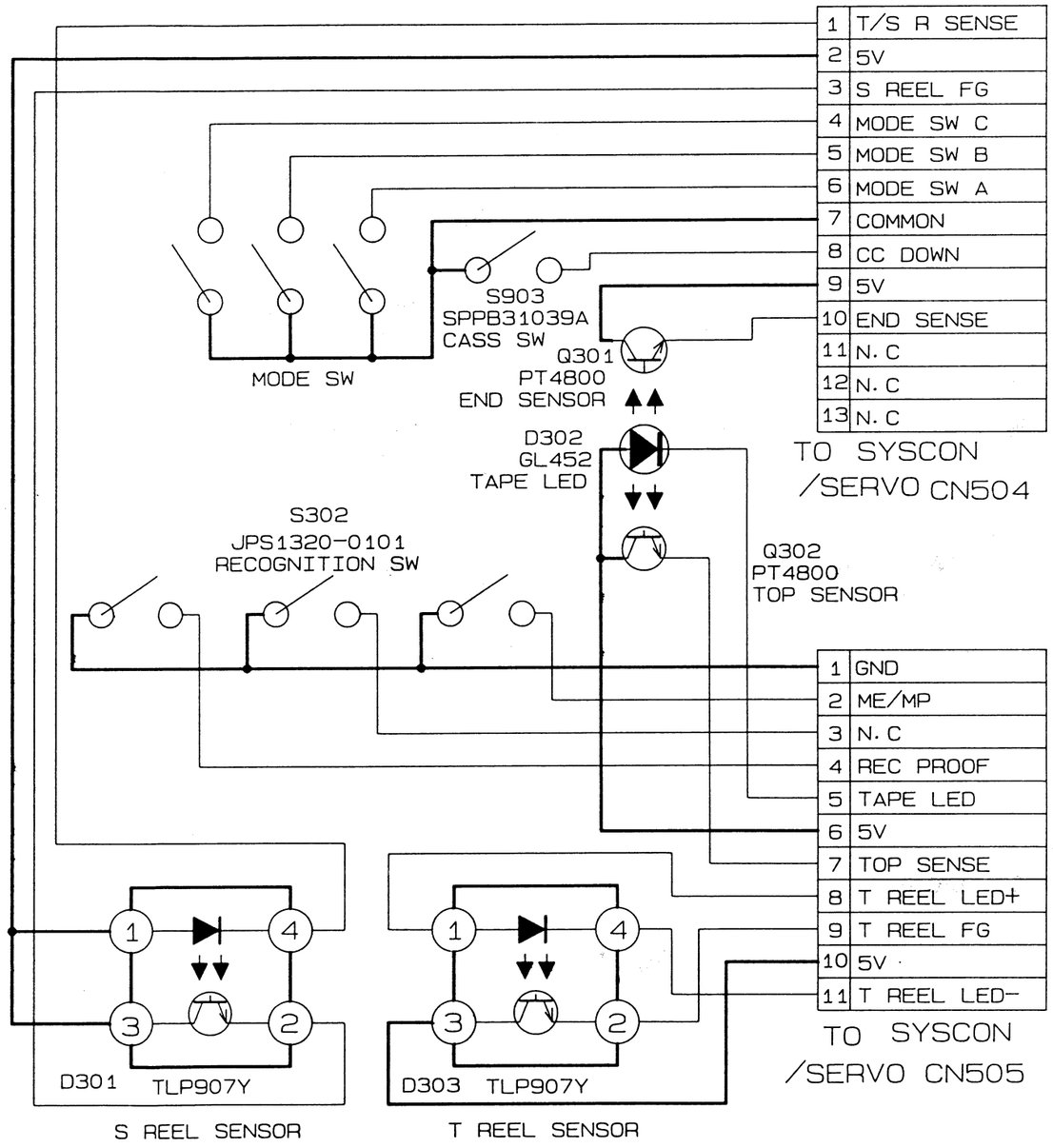
10-9. Start/Stop



DECK FPC

DECK FPC

10-10. DECK FPC



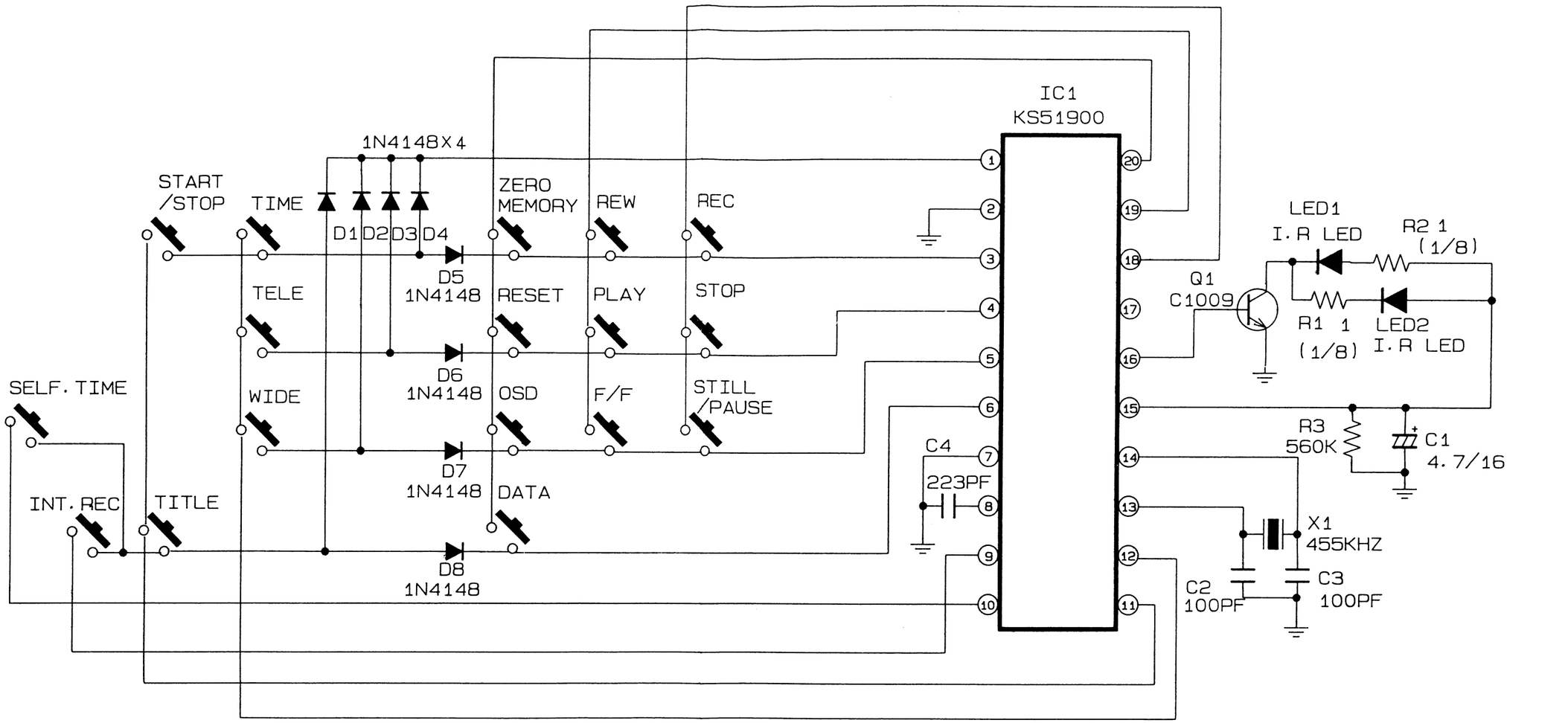
SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

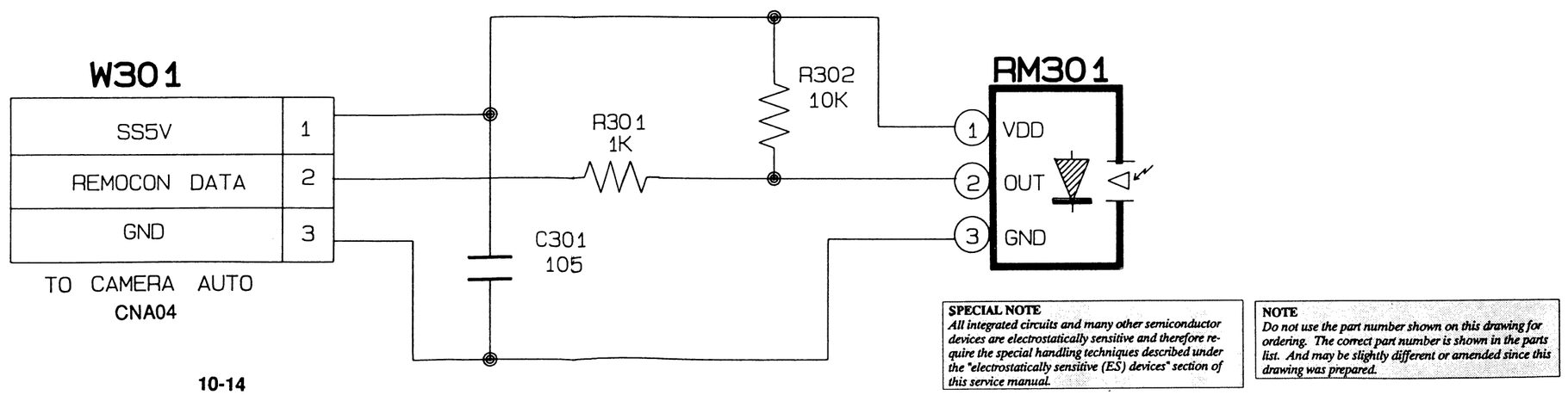
http://www.ManualsCenter.com

REMOTE CONTROL
REMOTE CONTROL

10-11. Remote Control



10-12. Module



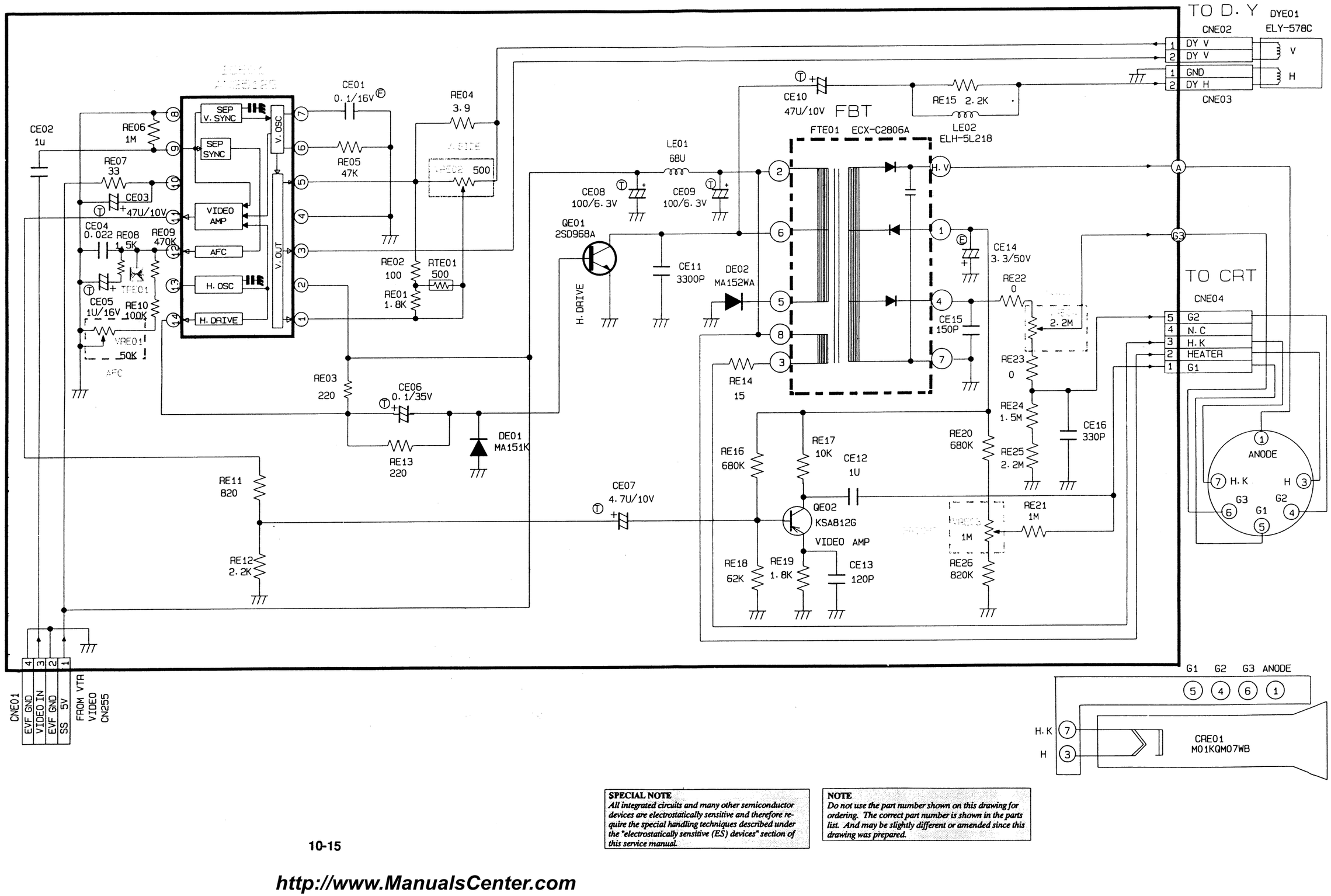
SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

E.V.F
E.V.F

10-13. E.V.F



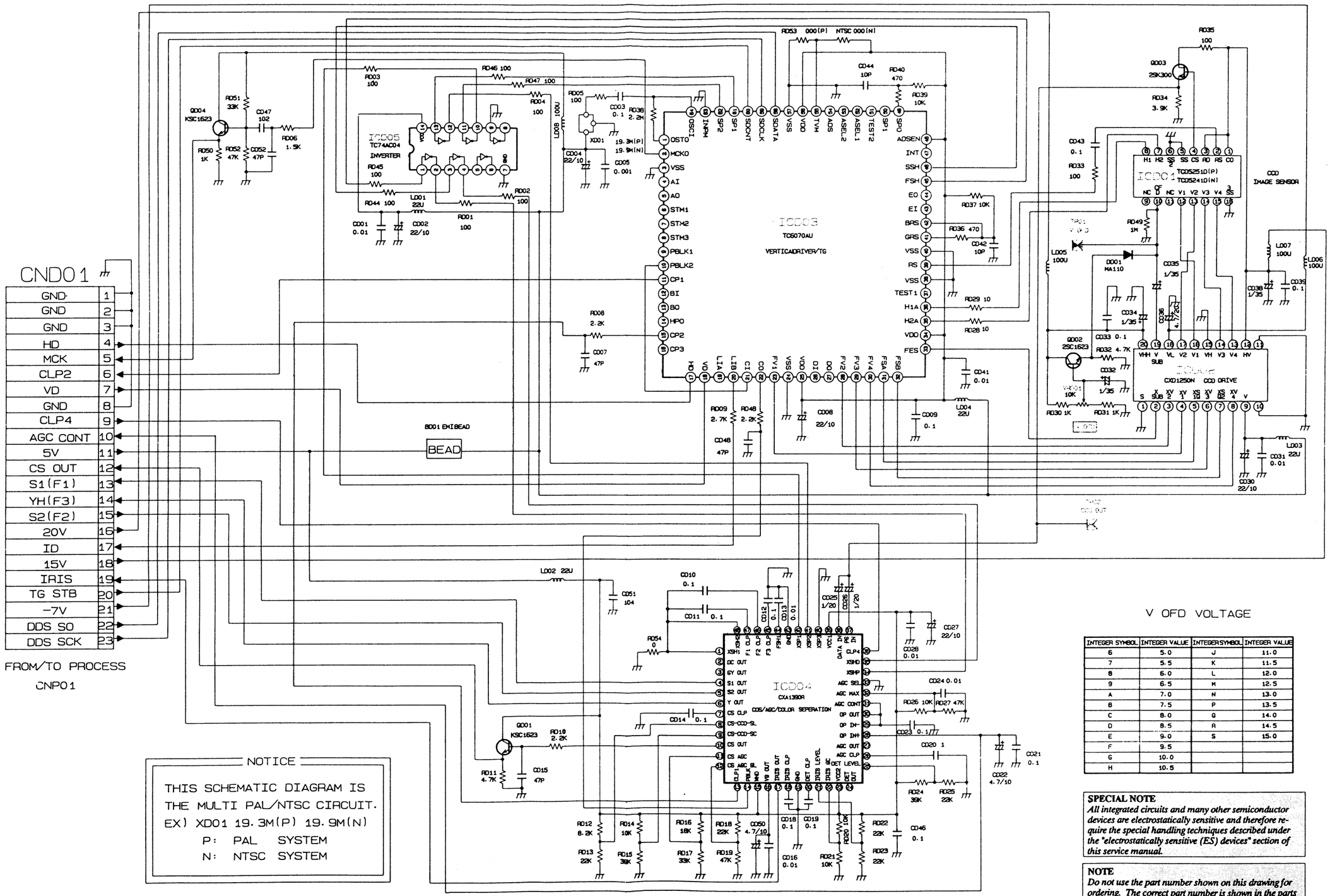
SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

DRIVE
DRIVE

10-14. Drive



V OFD VOLTAGE

INTEGER SYMBOL	INTEGER VALUE	INTEGER SYMBOL	INTEGER VALUE
6	5.0	J	11.0
7	5.5	K	11.5
8	6.0	L	12.0
9	6.5	M	12.5
A	7.0	N	13.0
B	7.5	P	13.5
C	8.0	Q	14.0
D	8.5	R	14.5
E	9.0	S	15.0
F	9.5		
G	10.0		
H	10.5		

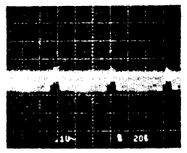
SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

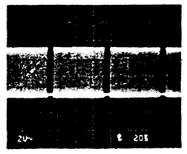
http://www.ManualsCenter.com

DRIVE

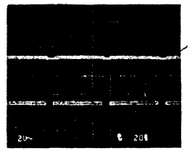
DRIVE



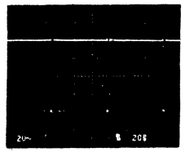
ICD01-4
CCD OUT



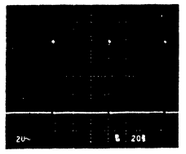
ICD01-7
H2



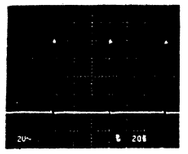
ICD01-8
H1



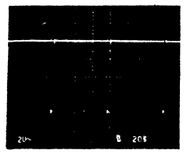
ICD01-12
V1



ICD01-B
V2



ICD01-14
V3



ICD01-15
V4

ICD01(TCD5251D)	
PIN NO	VOLTAGE(DC)
1	14.1V
2	12.6V
3	14.6V
4	5.3V
5	0.0V
6	0.0V
7	2.4V
8	2.4V
9	0.0V
10	13.5V
11	0.0V
12	0.0V
13	-4.4V
14	3.2V
15	-4.4V
16	0.0V

ICD02(CXD1250N)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	4.8V
3	4.7V
4	0.1V
5	4.9V
6	4.6V
7	4.9V
8	0.2V
9	5.0V
10	0.0V
11	0.0V
12	14.5V
13	-0.3V
14	-7.7V
15	0.0V
16	0.0V
17	-7.8V
18	-9.5V
19	-7.2V
20	20.2V

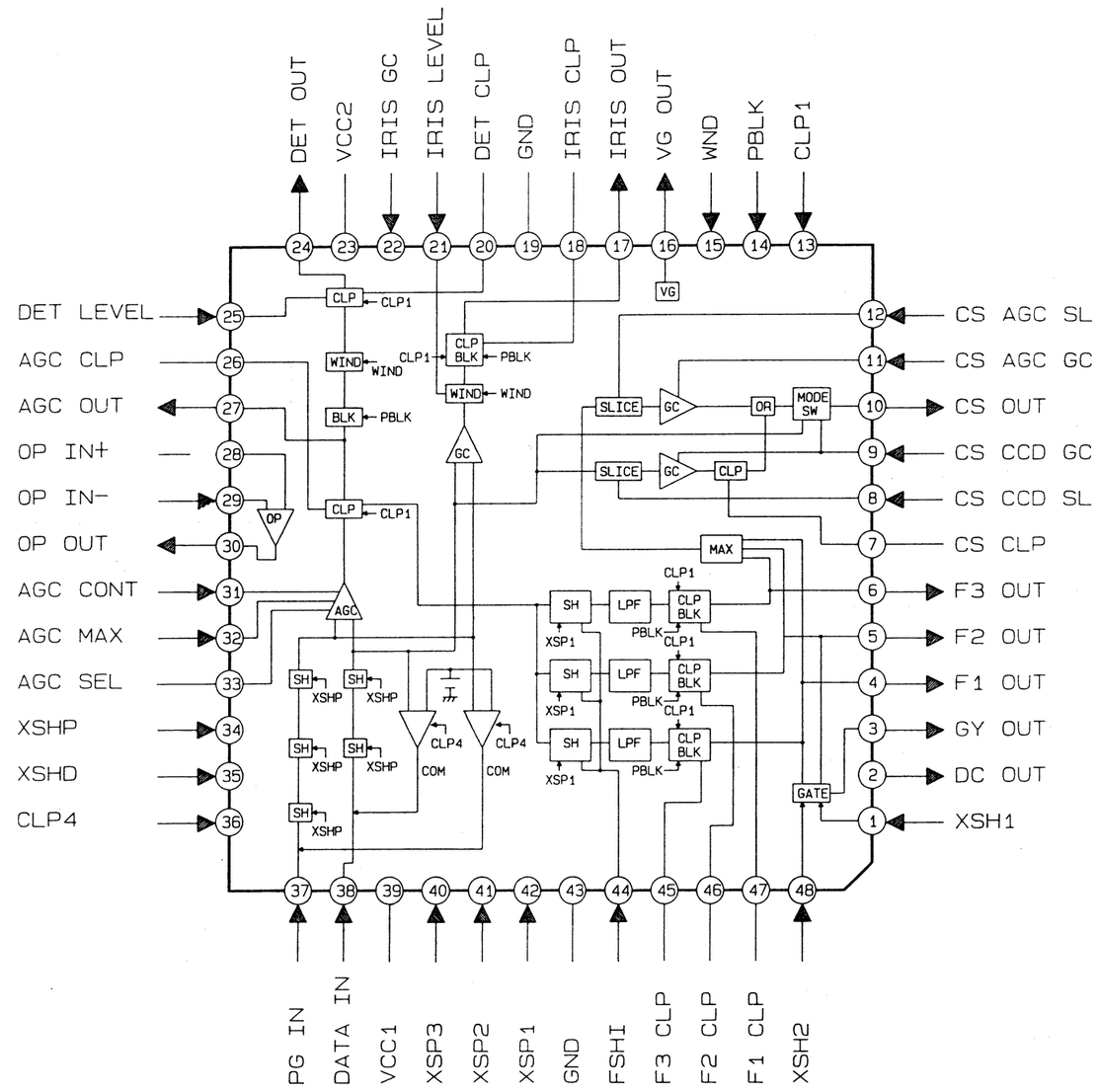
ICD03(TC6070AU)	
PIN NO	VOLTAGE(DC)
1	2.1V
2	2.1V
3	0.0V
4	0.0V
5	0.0V
6	0.0V
7	0.0V
8	0.0V
9	0.8V
10	0.6V
11	0.0V
12	0.0V
13	0.0V
14	0.2V
15	0.0V
16	0.0V
17	0.1V
18	0.0V
19	2.3V
20	2.3V
21	0.6V
22	3.8V
23	0.0V
24	0.0V
25	4.7V
26	0.0V
27	4.7V
28	4.4V
29	4.4V
30	0.0V
31	4.7V
32	4.7V
33	4.7V
34	4.7V
35	1.9V
36	2.4V
37	0.0V
38	0.0V
39	0.9V
40	0.0V
41	0.9V
42	0.9V
43	0.0V
44	0.0V
45	0.9V
46	0.9V
47	0.0V
48	4.7V

ICD03(TC6070AU)	
PIN NO	VOLTAGE(DC)
49	2.1V
50	2.1V
51	0.0V
52	0.0V
53	0.0V
54	4.7V
55	4.7V
56	4.7V
57	0.0V
58	0.2V
59	4.3V
60	4.3V
61	0.9V
62	0.9V
63	4.7V
64	0.0V

ICD05(TC74AC04)	
PIN NO	VOLTAGE(DC)
1	2.3V
2	2.3V
3	2.3V
4	0.0V
5	0.0V
6	5.0V
7	0.0V
8	5.0V
9	0.0V
10	2.4V
11	2.4V
12	2.4V
13	2.4V
14	5.0V

ICD04(CXA1390R)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	1.6V
3	1.8V
4	1.8V
5	1.8V
6	1.7V
7	2.7V
8	3.0V
9	3.9V
10	1.3V
11	2.9V
12	3.0V
13	0.0V
14	3.8V
15	4.7V
16	2.6V
17	1.8V
18	2.0V
19	0.0V
20	1.9V
21	2.2V
22	3.7V
23	4.7V
24	1.7V
25	1.6V
26	2.3V
27	1.9V
28	2.1V
29	2.1V
30	2.1V
31	2.1V
32	3.6V
33	0.0V
34	3.6V
35	3.5V
36	0.0V
37	2.8V
38	2.8V
39	4.7V
40	0.0V
41	3.6V
42	3.6V
43	0.0V
44	1.3V
45	1.9V
46	1.9V
47	1.9V
48	0.0V

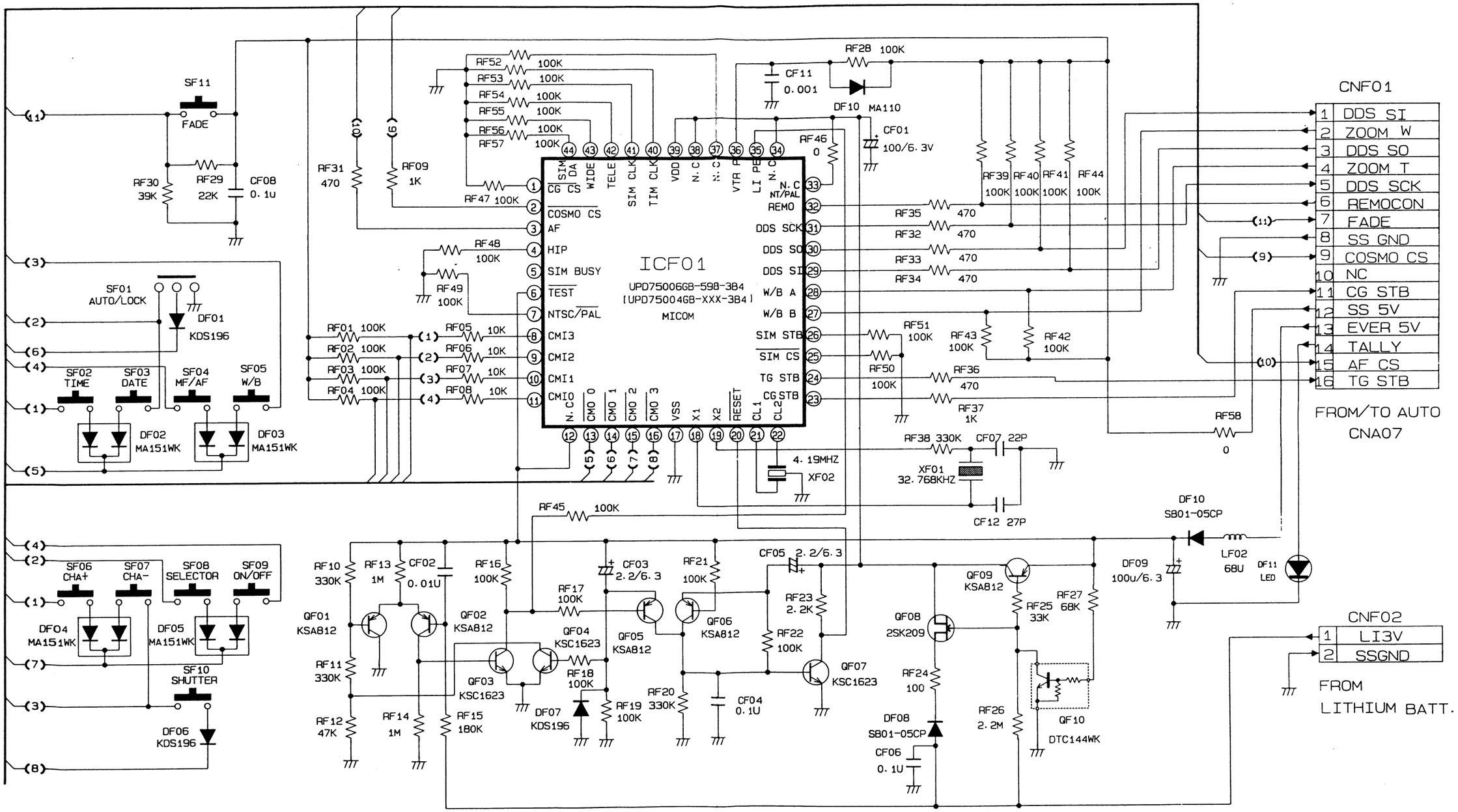
ICD04 CXA1390R



http://www.ManualsCenter.com

CAMERA FUNCTION
CAMERA FUNCTION

10-15. CAMERA Function



SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

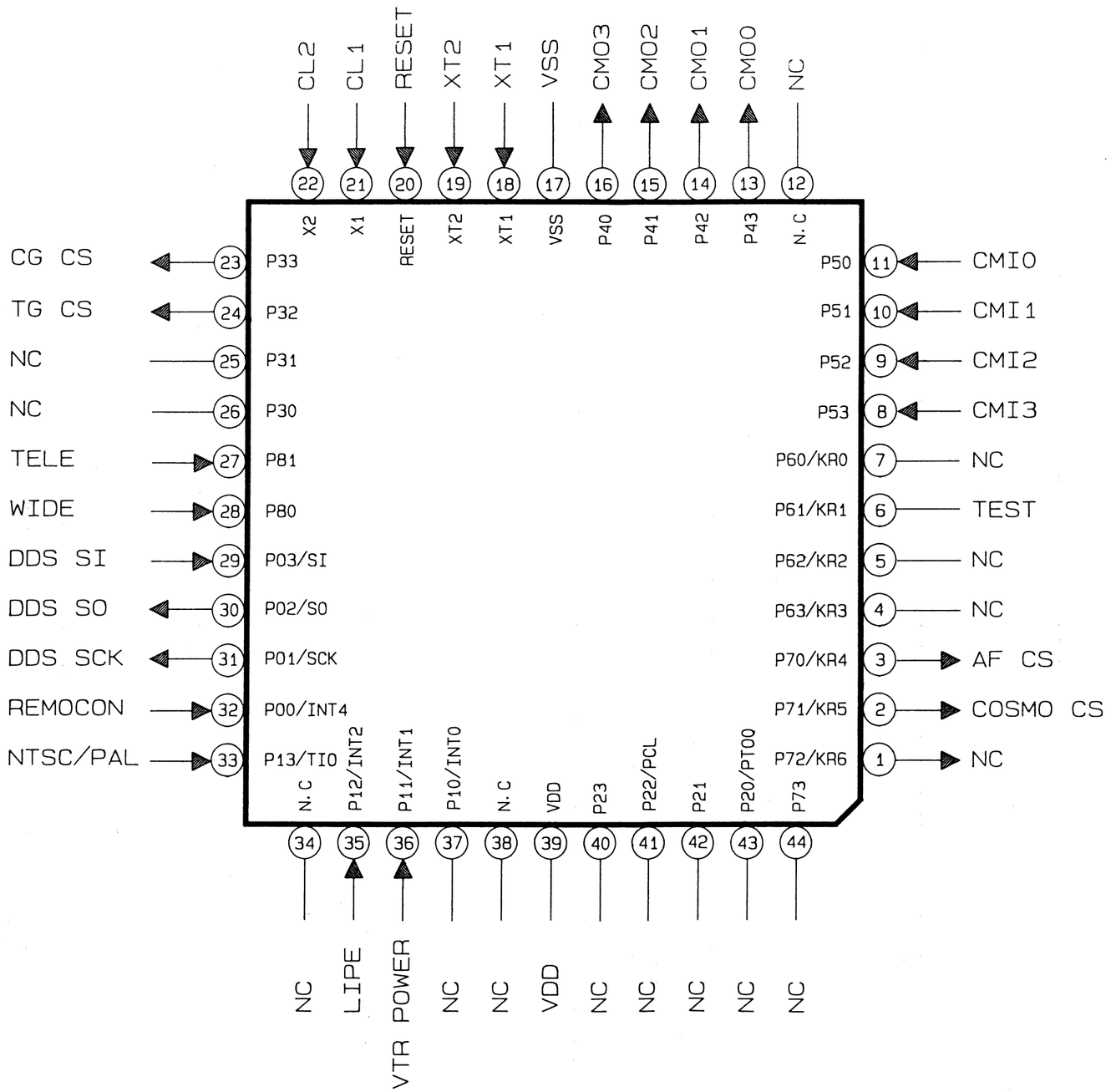
NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

CAMERA FUNCTION
CAMERA FUNCTION

ICF01	
PIN NO	VOLTAGE(DC)
1	0.0V
2	4.2V
3	4.5V
4	0.0V
5	0.2V
6	4.9V
7	0.0V
8	5.0V
9	5.0V
10	0.0V
11	5.0V
12	0.0V
13	0.0V
14	0.0V
15	0.0V
16	0.0V
17	0.0V
18	1.6V
19	2.7V
20	5.0V
21	2.5V
22	2.6V
23	4.1V
24	4.8V
25	0.0V
26	0.0V
27	5.4V
28	5.4V
29	5.0V
30	2.5V
31	4.1V
32	5.5V
33	5.5V
34	4.9V
35	0.0V
36	5.4V
37	4.9V
38	4.9V
39	4.9V
40	0.0V
41	0.0V
42	0.0V
43	0.0V
44	0.0V

ICF01 UPD75006GB



http://www.ManualsCenter.com

AUTO
AUTO

10-16. Auto

The schematic diagram of "Auto" is on page 10-27.

ICA01(X2400)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	0.0V
3	0.0V
4	0.0V
5	0.0V
6	0.0V
7	0.0V
8	5.0V

ICA02(BA4558)	
PIN NO	VOLTAGE(DC)
1	3.0V
2	3.0V
3	3.0V
4	0.0V
5	3.8V
6	3.8V
7	3.8V
8	5.0V

ICA03(NJM3414)	
PIN NO	VOLTAGE(DC)
1	2.8V
2	2.5V
3	2.5V
4	0.0V
5	3.2V
6	3.2V
7	3.2V
8	5.0V

ICA04(LB1830)	
PIN NO	VOLTAGE(DC)
1	7.2V
2	0.0V
3	0.0V
4	0.0V
5	7.2V
6	1.2V
7	1.9V
8	0.0V
9	5.0V
10	5.0V

ICA05(TB6504F)	
PIN NO	VOLTAGE(DC)
1	3.2V
2	0.0V
3	0.0V
4	3.2V
5	0.0V
6	0.0V
7	5.0V
8	3.1V
9	0.0V
10	0.0V
11	0.0V
12	0.3V
13	0.0V
14	0.0V
15	0.0V
16	0.0V
17	3.1V
18	0.0V
19	0.0V
20	5.0V
21	0.0V
22	1.8V
23	0.0V
24	5.0V

ICA06(NJM3414)	
PIN NO	VOLTAGE(DC)
1	1.8V
2	2.2V
3	2.2V
4	0.0V
5	2.2V
6	2.2V
7	2.2V
8	5.0V

ICA07(UPD78214)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	0.0V
3	0.0V
4	0.0V
5	0.0V
6	5.0V
7	0.5V
8	1.1V
9	0.0V
10	0.2V
11	0.2V
12	0.0V
13	0.0V
14	0.0V
15	0.0V
16	0.0V
17	0.0V
18	0.0V
19	0.0V
20	0.0V
21	0.0V
22	0.0V
23	0.0V
24	0.0V
25	0.0V
26	0.0V
27	0.0V
28	0.0V
29	0.0V
30	0.0V
31	0.0V
32	0.5V
33	5.0V
34	5.0V
35	1.7V
36	0.0V
37	0.0V
38	0.0V
39	0.0V
40	0.2V
41	5.0V
42	0.0V
43	3.9V
44	0.0V
45	0.0V
46	0.0V
47	0.0V
48	3.3V

ICA07(UPD78214)	
PIN NO	VOLTAGE(DC)
49	1.7V
50	0.4V
51	0.3V
52	0.0V
53	0.3V
54	5.0V
55	0.0V
56	0.0V
57	5.0V
58	5.0V
59	5.0V
60	0.0V
61	0.0V
62	0.0V
63	0.0V
64	0.0V

ICA08(SF6401)	
PIN NO	VOLTAGE(DC)
1	2.4V
2	0.0V
3	0.0V
4	2.4V
5	2.4V
6	5.0V
7	2.4V
8	0.0V
9	0.0V
10	1.1V
11	0.0V
12	0.0V
13	0.0V
14	5.0V
15	5.0V
16	0.0V
17	0.0V
18	2.3V
19	2.3V
20	2.3V
21	2.3V
22	2.3V
23	2.3V
24	2.4V
25	0.0V
26	2.8V
27	3.1V
28	3.1V
29	3.1V
30	5.0V
31	3.2V
32	3.7V
33	3.8V
34	2.2V
35	5.0V
36	0.2V
37	0.0V
38	0.0V
39	5.0V
40	0.2V
41	0.0V
42	0.0V
43	0.0V
44	0.0V
45	0.0V
46	0.0V
47	0.0V
48	0.0V

ICA09(M6219)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	0.0V
3	0.0V
4	0.0V
5	0.0V
6	5.0V
7	0.0V
8	2.3V
9	5.0V
10	5.0V
11	3.0V
12	3.2V
13	0.0V
14	5.0V
15	2.4V
16	2.4V
17	2.3V
18	3.9V
19	1.0V
20	2.3V

ICA10(74HC4066)	
PIN NO	VOLTAGE(DC)
1	3.8V
2	3.8V
3	3.8V
4	3.0V
5	1.9V
6	5.0V
7	0.0V
8	3.8V
9	3.9V
10	3.9V
11	3.9V
12	2.1V
13	5.0V
14	5.0V

QA01(IMT1)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	3.7V
3	2.8V
4	0.0V
5	2.1V
6	2.8V

QA02(IMX1)	
PIN NO	VOLTAGE(DC)
1	2.5V
2	2.5V
3	1.9V
4	5.0V
5	1.0V
6	0.3V

QA03(IMX1)	
PIN NO	VOLTAGE(DC)
1	5.0V
2	2.9V
3	2.3V
4	5.0V
5	3.0V
6	2.3V

QA04(IMX1)	
PIN NO	VOLTAGE(DC)
1	2.6V
2	2.6V
3	2.0V
4	5.0V
5	0.9V
6	0.3V

QA05(IMX1)	
PIN NO	VOLTAGE(DC)
1	2.6V
2	2.6V
3	2.6V
4	.5.0V
5	0.9V
6	0.3V

QA06(IMX1)	
PIN NO	VOLTAGE(DC)
1	5.0V
2	5.0V
3	2.7V
4	5.0V
5	3.5V
6	2.8V

QA10(IMX1)	
PIN NO	VOLTAGE(DC)
1	5.0V
2	3.1V
3	2.6V
4	5.0V
5	3.0V
6	2.5V

QA17(IMZ1)	
PIN NO	VOLTAGE(DC)
1	5.0V
2	2.2V
3	2.8V
4	0.0V
5	2.8V
6	2.2V

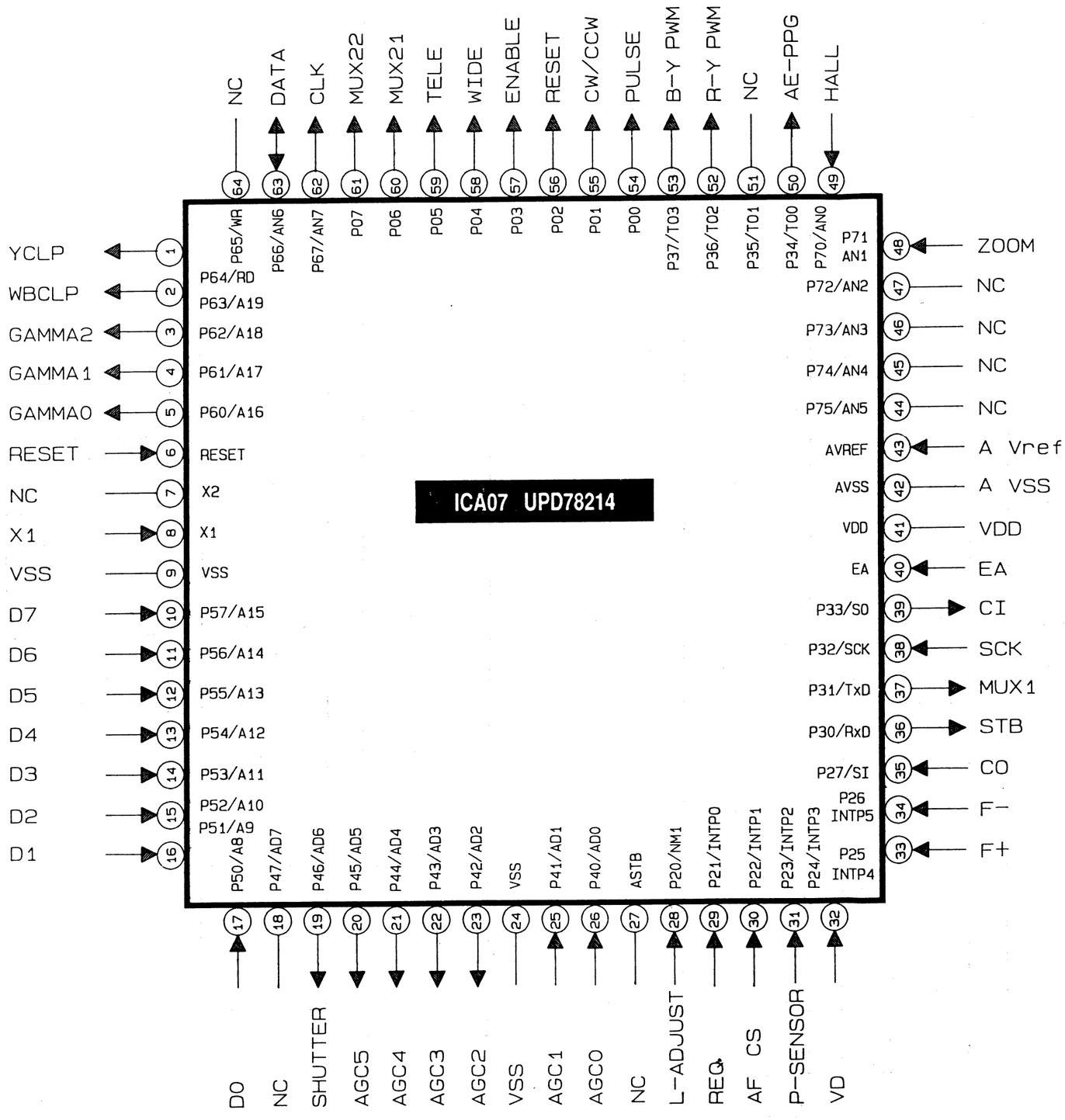
TR NO	E	B	C
QA07	1.6V	0.0V	5.0V
QA08	3.6V	3.0V	0.0V
QA09	4.1V	3.8V	0.0V
QA12	3.4V	2.7V	0.0V
QA13	3.1V	1.7V	3.0V
QA14	3.2V	3.2V	2.2V
QA15	0.0V	0.0V	2.8V
QA16	0.0V	4.9V	0.0V
QA18	0.0V	0.0V	3.1V
QA19	2.1V	2.7V	5.0V
QA20	0.0V	0.0V	2.5V
QA21	0.0V	0.0V	5.0V
QA22	2.6V	3.1V	5.0V
QA23	3.3V	3.5V	0.0V
QA24	0.0V	0.0V	5.0V

http://www.ManualsCenter.com

AUTO

AUTO

AUTO



10-17. Process

The schematic diagram of "Process" is on page 10-28.

ICP01(CXA1391R)	
PIN NO	VOLTAGE(DC)
1	3.6V
2	3.0V
3	2.5V
4	3.0V
5	2.4V
6	2.2V
7	2.9V
8	3.9V
9	1.9V
10	3.0V
11	2.9V
12	3.1V
13	3.5V
14	2.2V
15	3.5V
16	3.1V
17	3.8V
18	3.9V
19	2.6V
20	2.6V
21	3.1V
22	3.3V
23	1.9V
24	2.3V
25	0.0V
26	0.0V
27	0.0V
28	1.8V
29	1.8V
30	1.7V
31	1.7V
32	3.0V
33	4.1V
34	3.3V
35	3.3V
36	3.3V
37	3.6V
38	4.4V
39	4.1V
40	0.0V
41	3.3V
42	0.5V
43	2.9V
44	3.0V
45	0.5V
46	2.0V
47	2.3V
48	3.3V

ICP01(CXA1391R)	
PIN NO	VOLTAGE(DC)
49	1.5V
50	2.6V
51	5.0V
52	2.0V
53	2.0V
54	2.0V
55	0.0V
56	0.0V
57	3.8V
58	3.8V
59	0.0V
60	3.0V
61	1.7V
62	3.3V
63	1.9V
64	1.9V

ICP02(MSM6834)	
PIN NO	VOLTAGE(DC)
1	9.1V
2	0.0V
3	5.0V
4	3.1V
5	3.1V
6	2.4V
7	1.4V
8	4.7V

ICP03(MN3861)	
PIN NO	VOLTAGE(DC)
1	3.2V
2	2.5V
3	5.0V
4	0.4V
5	2.4V
6	5.0V
7	2.5V
8	2.1V
9	2.6V
10	0.0V
11	2.4V
12	0.5V
13	1.7V
14	2.2V
15	0.0V
16	2.6V

ICP04(CXA1392R)	
PIN NO	VOLTAGE(DC)
1	3.0V
2	3.4V
3	5.0V
4	2.6V
5	2.6V
6	0.0V
7	0.0V
8	5.0V
9	0.5V
10	0.5V
11	0.5V
12	5.0V
13	5.0V
14	2.1V
15	2.3V
16	2.8V
17	5.0V
18	2.4V
19	0.0V
20	1.9V
21	1.7V
22	2.2V
23	3.3V
24	3.3V
25	2.3V
26	4.0V
27	3.3V
28	0.0V
29	0.0V
30	4.7V
31	5.0V
32	3.1V
33	2.3V
34	3.1V
35	2.2V
36	3.4V
37	0.0V
38	2.5V
39	3.2V
40	5.0V
41	3.5V
42	2.0V
43	0.0V
44	0.4V
45	0.0V
46	2.9V
47	3.0V
48	3.4V

ICP05(TC74HC86)	
PIN NO	VOLTAGE(DC)
1	2.4V
2	0.5V
3	0.3V
4	0.3V
5	5.0V
6	0.4V
7	0.0V
8	0.5V
9	0.5V
10	5.0V
11	0.3V
12	0.3V
13	5.0V
14	5.0V

ICP06(MN67621F)	
PIN NO	VOLTAGE(DC)
1	2.3V
2	0.0V
3	0.0V
4	0.0V
5	0.0V
6	2.4V
7	0.0V
8	0.0V
9	2.5V
10	0.0V
11	2.3V
12	2.4V
13	0.0V
14	5.0V
15	2.4V
16	2.4V
17	0.0V
18	0.0V
19	0.0V
20	2.4V
21	2.4V
22	0.0V
23	2.4V
24	2.4V
25	5.0V
26	2.2V
27	2.4V
28	2.4V
29	5.0V
30	0.0V
31	0.0V
32	0.0V
33	0.0V
34	0.0V
35	0.0V
36	0.0V
37	0.0V
38	2.5V
39	5.0V
40	2.9V
41	0.0V
42	2.4V
43	0.0V
44	0.0V

QP03(IMZ2)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	2.9V
3	5.0V
4	3.5V
5	2.8V
6	3.4V

QP08(IMX1)	
PIN NO	VOLTAGE(DC)
1	4.0V
2	2.2V
3	1.6V
4	4.2V
5	2.5V
6	1.8V

QP09(IMZ2)	
PIN NO	VOLTAGE(DC)
1	3.8V
2	1.1V
3	0.0V
4	1.7V
5	4.3V
6	4.7V

QP10(IMZ2)	
PIN NO	VOLTAGE(DC)
1	2.9V
2	1.1V
3	4.4V
4	1.6V
5	4.4V
6	5.0V

QP14(IMX1)	
PIN NO	VOLTAGE(DC)
1	4.9V
2	2.9V
3	2.3V
4	4.9V
5	3.8V
6	3.2V

QP15(IMZ2)	
PIN NO	VOLTAGE(DC)
1	0.0V
2	1.5V
3	5.0V
4	2.0V
5	1.5V
6	0.0V

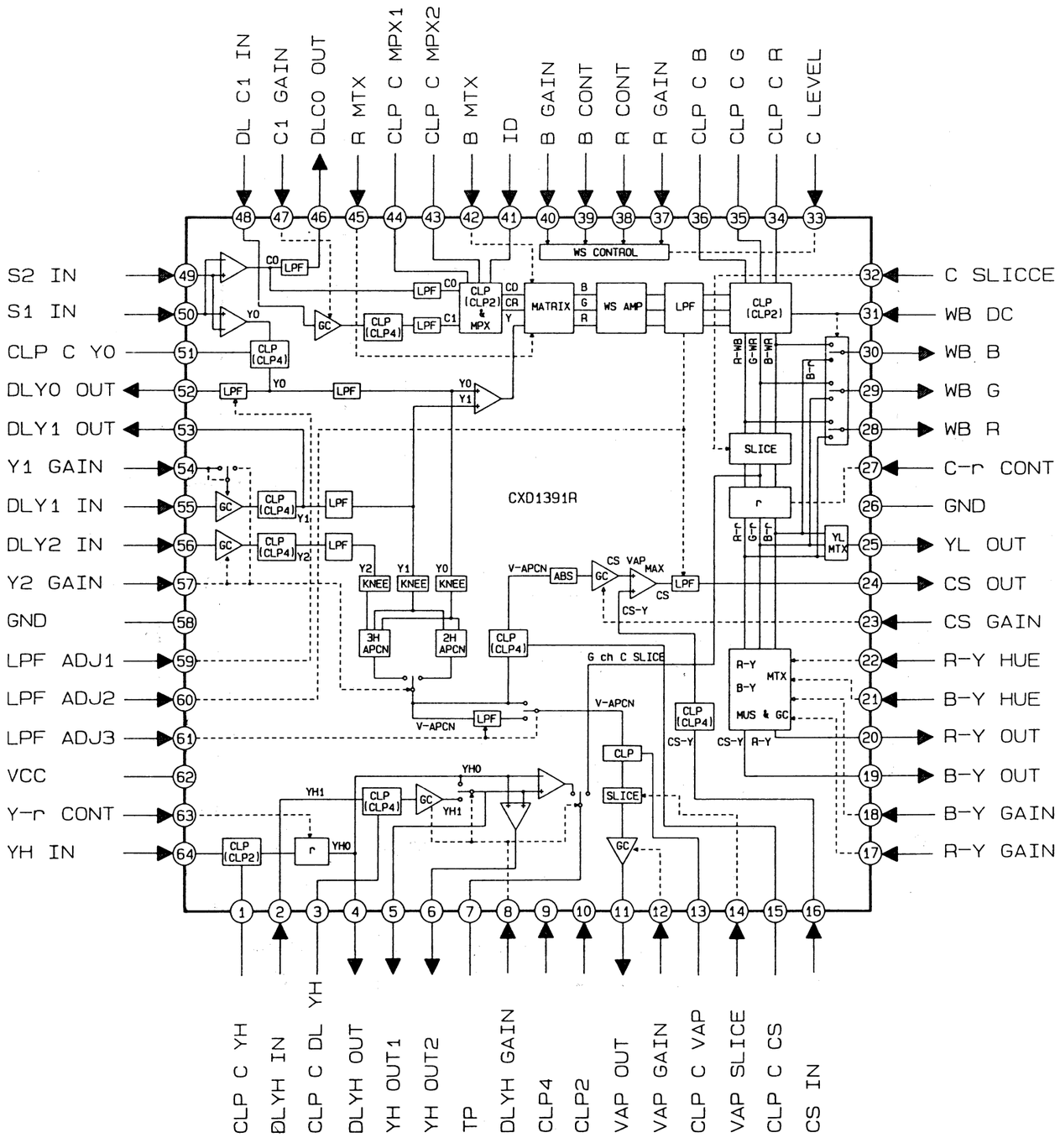
QP16(IMX1)	
PIN NO	VOLTAGE(DC)
1	5.0V
2	3.1V
3	2.5V
4	5.0V
5	2.0V
6	2.5V

TR NO	E	B	C
QP01	1.5V	0.9V	0.0V
QP02	3.4V	3.1V	3.0V
QP04	2.1V	2.9V	2.7V
QP05	1.8V	1.2V	0.0V
QP06	9.3V	9.9V	5.0V
QP07	1.9V	2.5V	4.0V
QP12	0.5V	0.0V	0.0V
QP13	1.1V	1.7V	4.9V
QP17	3.1V	2.5V	0.0V
QP18	2.1V	1.5V	0.0V
QP19	4.9V	1.8V	2.4V
QP20	1.3V	2.1V	4.9V
QP21	2.3V	1.8V	0.0V
QP22	2.4V	1.8V	0.0V

http://www.ManualsCenter.com

PROCESS PROCESS PROCESS

ICP01 CXA1391R

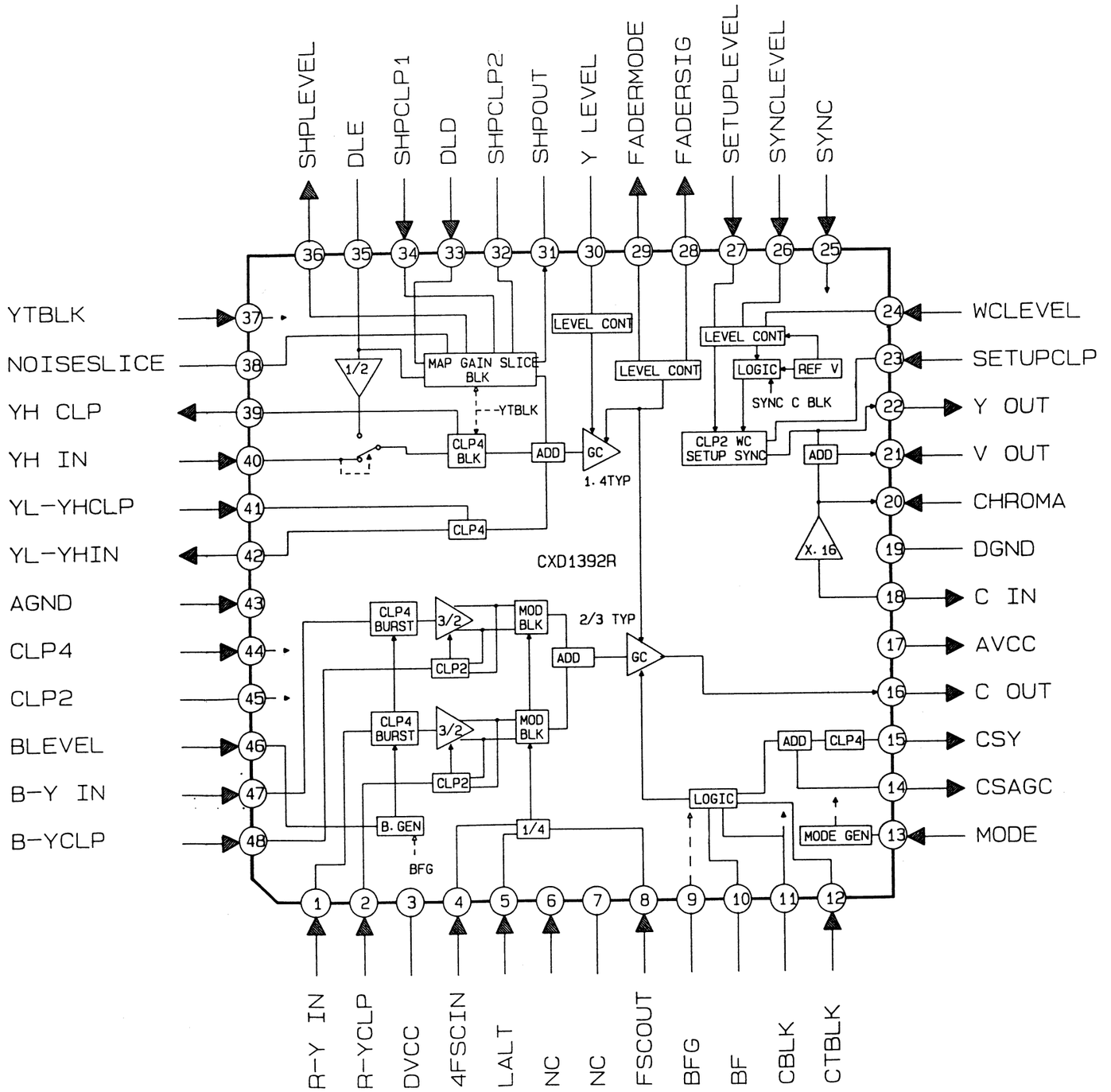


PROCESS

PROCESS

PROCESS

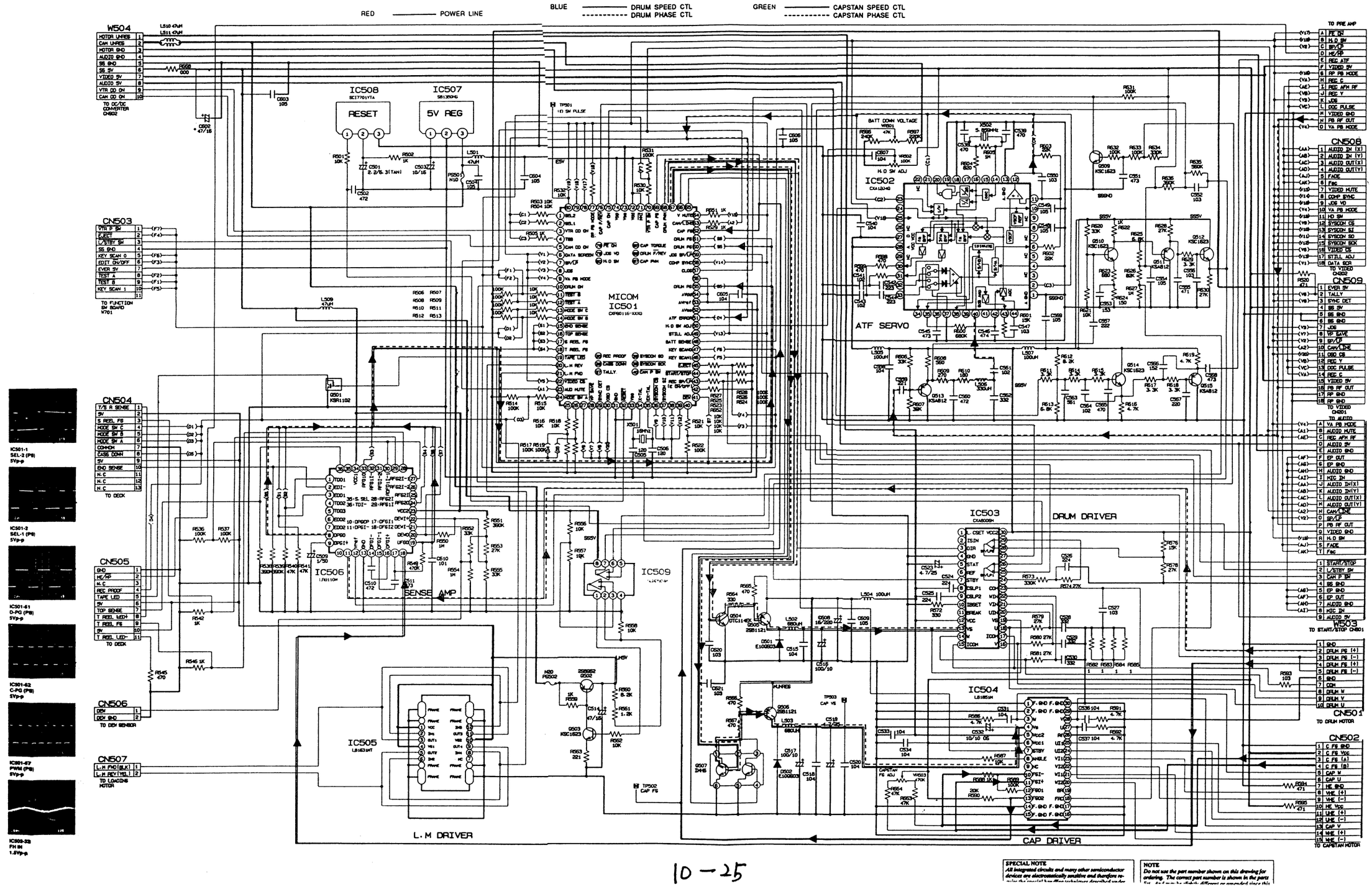
ICP04 CXA1392R



http://www.ManualsCenter.com

SYSTEM CONTROL SERVO
SYSTEM CONTROL SERVO
SYSTEM CONTROL SERVO

10-3. System Control/Servo



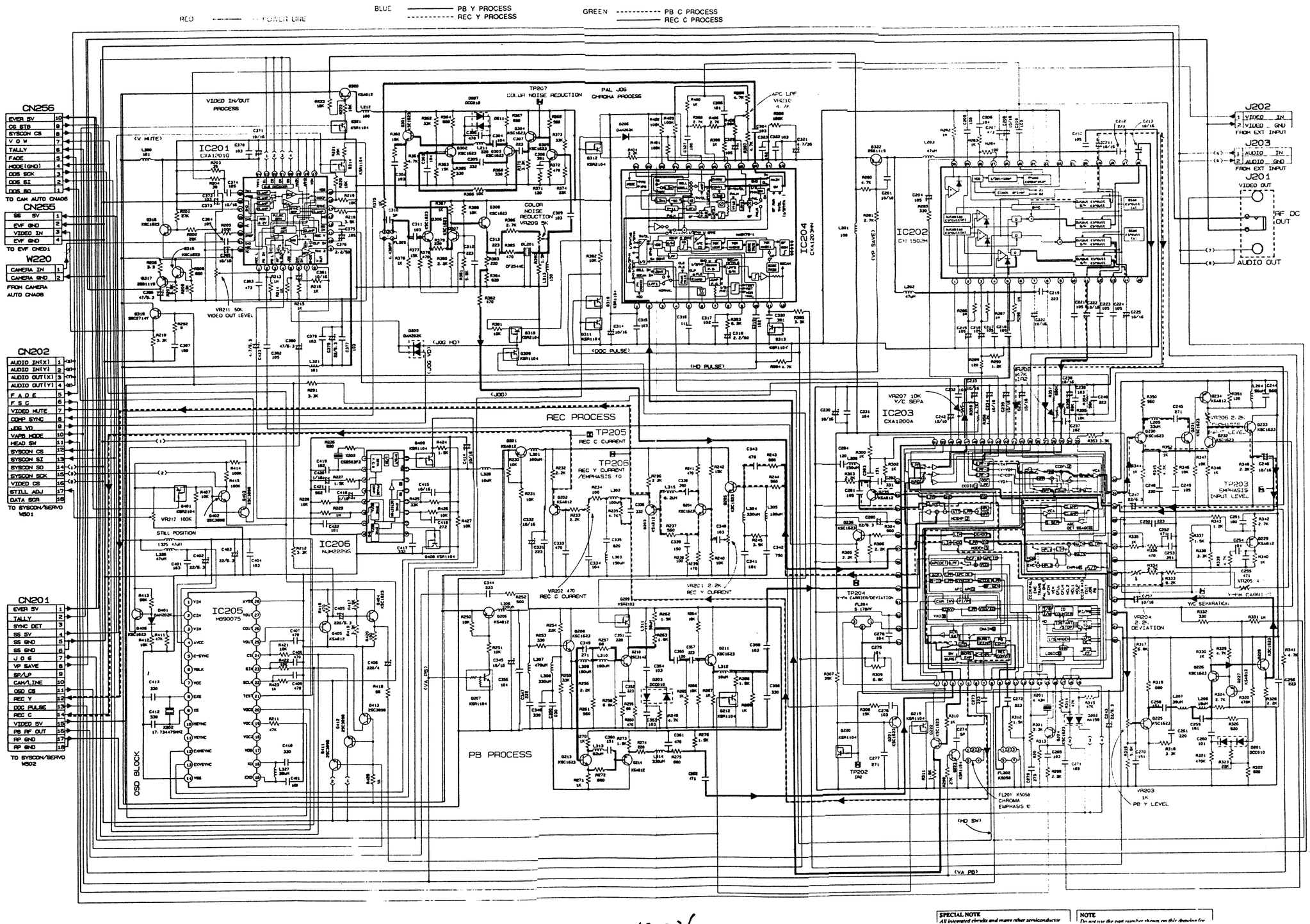
10-25

SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require special handling techniques described under

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts

http://www.ManualsCenter.com

10-4. Video



TP201 Y/C SEPARATION (REC)

TP202 IR2 (REC) 6.8μs

TP203 EMPHASIS INPUT (REC) 500mVp-p

TP205 REC C CURRENT (REC) 130mVp-p

TP206 REC Y CURRENT (REC) 270mVp-p

TP207 CNR (PB) MINIMIZE THIS SIGNAL

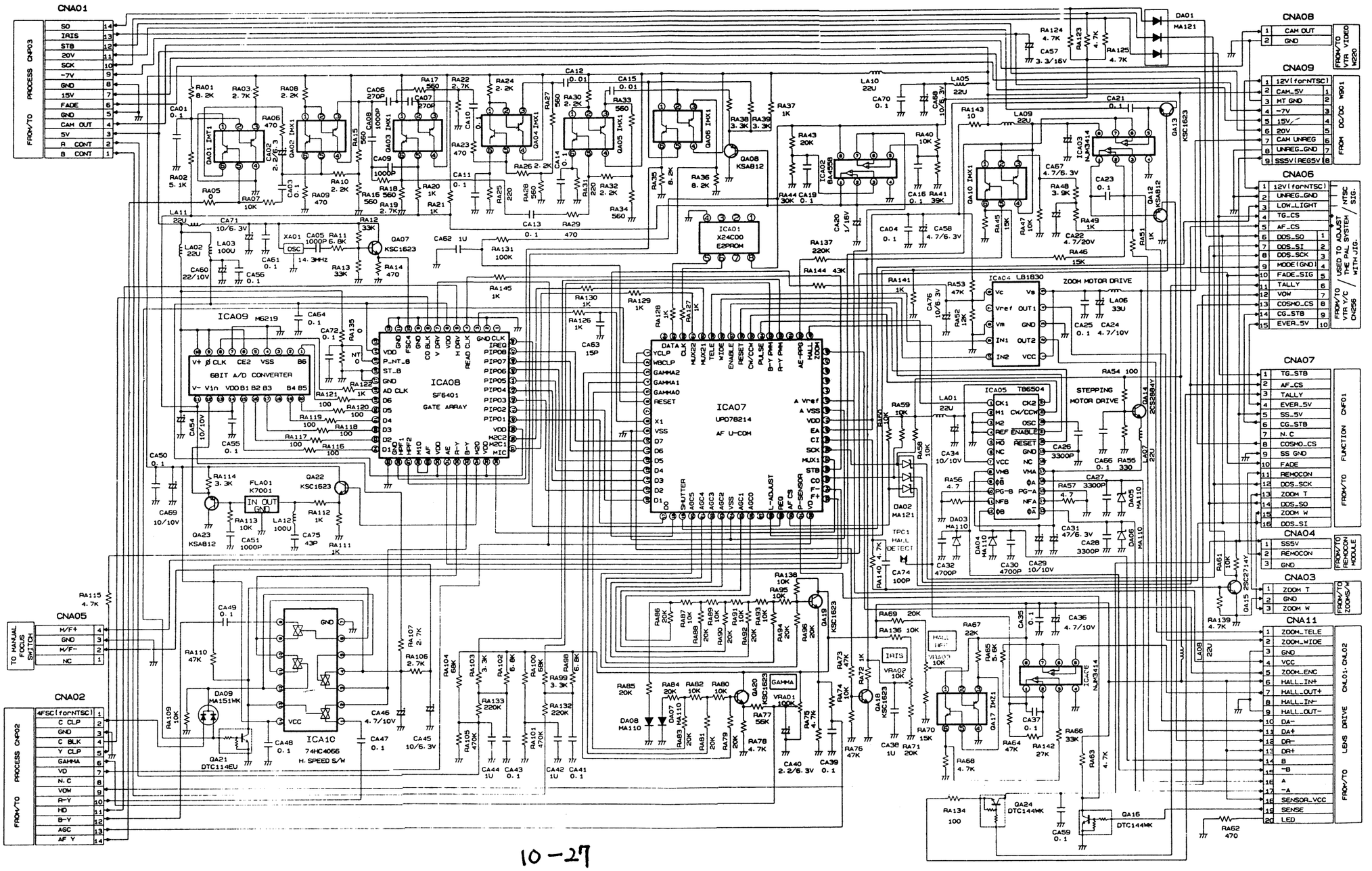
V.OUT TERMINAL V. OUT LEVEL (E-E) 1.0Vp-p

SPECIAL NOTE
All integrated circuits and many other semiconductor

NOTE
Do not use the part number shown on this drawing for

http://www.ManualsCenter.com

10-16. Auto



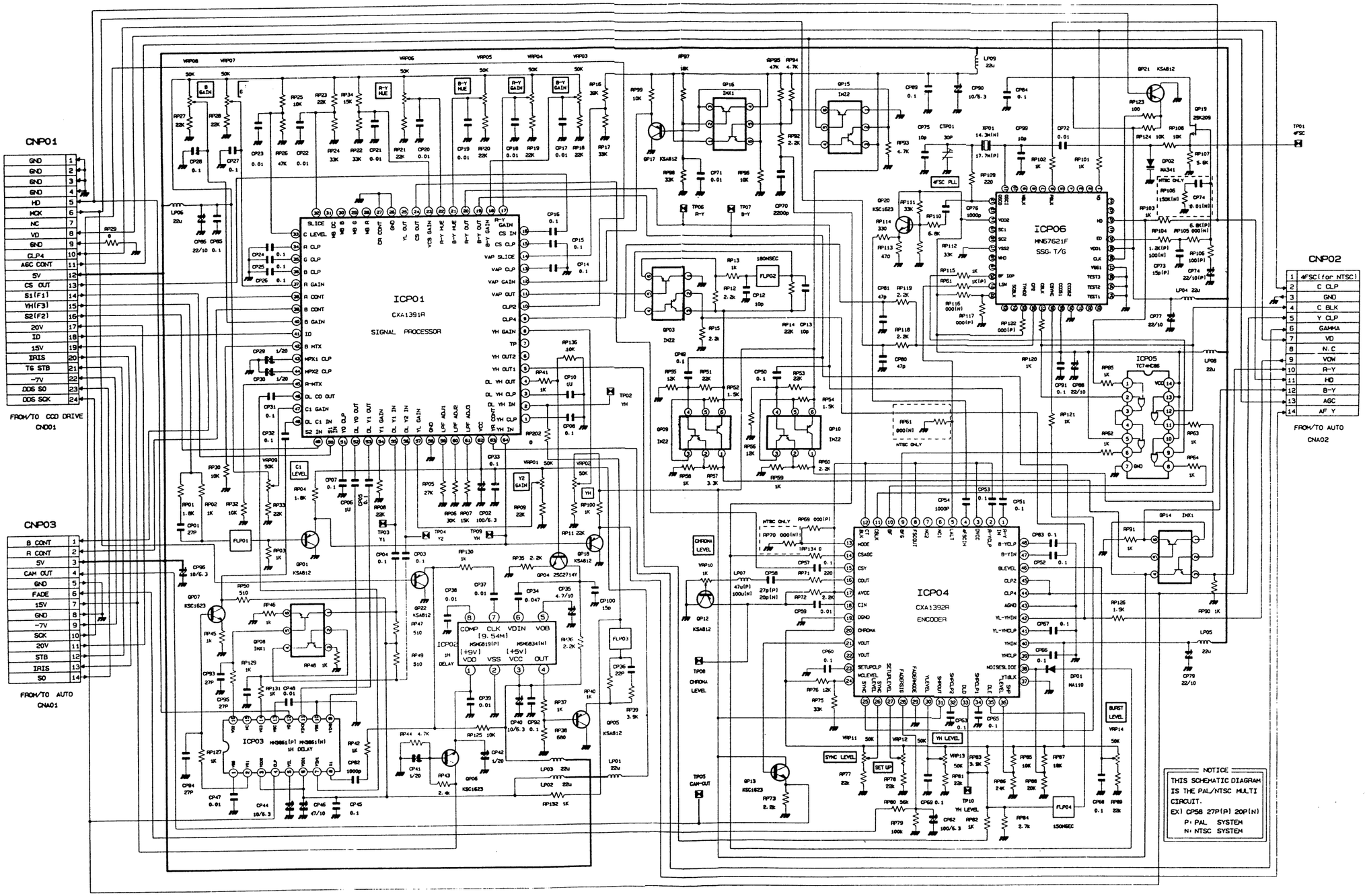
10-27

SPECIAL NOTE
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

NOTE
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list. And may be slightly different or amended since this drawing was prepared.

http://www.ManualsCenter.com

10-17. Process



ICP01-48 F2 IN

ICP01-50 F1 IN

ICP01-64 YH IN

ICP04-1 R-Y IN

ICP04-16 C OUT

ICP04-21 CAM OUT

ICP04-47

10-28

http://www.ManualsCenter.com